



Static Spider Mountain

With Spiral Slide and Auto Belay Rock Climb Attachments

Operations Manual

Models: SP24TSRW

With Rock Panel and slide: 5700 lbs

REVISION 02/11/14

MIAMI, FL 33158

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Welcome

It is with great pleasure that we congratulate you on your Static Spider Mountain 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 Static Spider Mountain 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 artificial Static Spider Mountain 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 the best new attraction in the market.

Our part in making our team successful is:

- Commitment to a proper, effective, safe and profitable design.
- Seven days a week customer service support
- Manufacturing to "ASTM F-1159-97a" & **ASTM International F-24**
- **Committee standards as presented in Volume 15.07**, ADIPS, TUV, CE
- Vincotte safety standards for the worldwide 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
Director

Confidentiality Agreement

This manual and the content within this manual are for the exclusive use and operation of the Static Spider Mountain product by the owner of the Static Spider Mountain 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 Static Spider Mountain 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 Static Spider Mountain product to customers serviced by the owner of the Static Spider Mountain Static Spider Mountain.

Disposition

This manual is the property of the Static Spider Mountain 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 of replacement pages are sent, Vertical Reality will provide a cover letter outlining the revision and the effective date of any procedural changes.

Receipt, Acknowledgment and Warrantee Registration
PLEASE FILL IN AND MAIL TO VERTICAL REALITY

This Training/Operations Manual is an important document intended to help you become acquainted with the Static Spider Mountain, Vertical Reality, guidelines as to safe and recommended operation.

Please read the following statement and sign below to indicate your receipt and acknowledgment of the Static Spider Mountain/Vertical Reality Training Manual.

I have received and read my copy of the Static Spider Mountain/Vertical Reality Training Manual. 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 Static Spider Mountain has the responsibility to ensure the correct and latest version of the manual is being used.

As an owner of the Static Spider Mountain 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 Static Spider Mountain/Vertical Reality training Manual and that I have read it.

Authorized Representative

Date

VIN NO
DATE PURCHASED

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

Company Overview

Vertical Reality is 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 a 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.

Static Spider Mountain

Product Overview

Welcome to the Static Spider Mountain, Vertical Reality's latest in revenue generating interactive sports products designed for the amusement, entertainment, and fitness industries. The Static Spider Mountain is designed to meet ASTM F-1159-97a standards for the Amusement Industry. This means that the Static Spider Mountain 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.

Ref: Static Spider Mountain device Code Compliance

ASTM F698-94 Physical Information

ASTM F747-97 Definition of Terms

ASTM F770-93 Operation Procedures

ASTM F846-92 Testing Performance

ASTM F893-95 Inspection

ASTM F1 159-97a Design and Manufacture

ASTM F1 193-97 Quality Assurance

Training Overview

This training course is an introduction to the **Static Spider Mountain** 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 Static Spider Mountain owner with the information, tips, and techniques that will help the employees and owner operate the Static Spider Mountain as effectively and safely as possible. It is no way a total representation of all facts. Safe operation of this Static Spider Mountain is the sole responsibility of the Static Spider Mountain owner/operator. Good and reasonable judgment must be used when promoting and/or operating the Static Spider Mountain.

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 Static Spider Mountain
- Identify and understand the inspection points for day-to-day maintenance.
- Define and understand the safe operation of the Static Spider Mountain.
- Identify and explain the rules for safe usage of the Static Spider Mountain.

Description and Materials used

The "Spider Mountain " is a unique new climbing attraction for all ages that develops motor skills and gives a complete new experience each time it is attempted. The participants climb upwards or downwards through a series of levels of interlaced flexible webbing straps, until either reaching the top level and descending to the bottom level via a tube slide.

During operation a vertical fall is prevented by the interlaced webbing at each level, ensuring a soft landing over a maximum fall distance of approximately 27.5 inches. By having the webbing in individual strands along with keeping the minimum participant height to 42 inches, the fall height to 27.5 inches it ensures that there is no possibility of a child hanging them-self or stepping on another participant below. The participants are prevented from escaping sideways through the spaces between the main support rings by flexible mesh netting, which is securely connected to the main structural ring components. Additionally, to prevent any injury to the participants resulting from a trip or fall, the main structural steel

components are fully protected by soft padding, should a participant inadvertently fall against these. In other words all contacts between the participants and the device are soft, which ensures that the possibilities of any injuries are minimized. The ride is also supervised at all times, to ensure that over-boisterous behavior is restricted.

- Steel Rings or Vertical posts will always consist of material which will be of an equivalent or greater grade than S235 structural steel.
- Mesh side netting and top netting will always consist of a netting meeting or exceeding the netting specifications for M-1250 HTPP Incord netting
- Trampoline mat will always meet or exceed the specification of Tencate Nicolon 24109/24119 Trampoline Fabric.
- Elastic Webbing will always meet or exceed the requirements of FAR 25.853
- Rope specification: Polyester ¼ inch diameter Min strength of 1900 lbs.
- Padding Specification: Foam tube with a nominal outside dimension of 3.4 inch and nominal wall thickness of .75 inch with a min pre-heat release rate of 28 kW.
- Cable ties specifications: Ultraviolet (UV) Resistant Nylon 6.6, Wide tie body .350" (8.9mm) for improved aesthetics, 124 lb. (550N) minimum loop tensile strength, No protruding head to cause injury since head is inverted.
- If equipped with optional Tube slide: Galvanized Support Beam , UV resistant water slide.

The Static Spider Mountain with Tube slide and wall is the name for the entire system.

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

- Width - 10' - 3"
- Height - 24'
- Length - 10' - 3"
- Weight - 3700 lbs.

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

Required Personnel - The Static Spider Mountain with slide and Rockwall can be operated with only two people.

Site Selection

- Total operational foot print required for Static Spider Mountain with-out slide is (12ft wide by 12 ft. long).
- Total operational foot print required for Static Spider Mountain with rock wall attachment is (18 ft wide by 12 ft long).
- Total operational foot print required for Static Spider Mountain with slide and Rockwall is (18 ft wide by 16 ft long).

- Fencing or blocking of the area is not required due to the fact there are only two accessible exits and one accessible entry way for the patrons.
- Outdoor and Indoor locations should have a slope of 5 degrees or less.
- Outdoor locations should be clear of any overhead obstructions, i.e. trees or power lines by a minimum of 15 ft. Unit must be at least 5ft away from any obstacles located 360 degrees around the unit.
- Indoor locations must have at least 12 inches of clearance from ceiling.

Checklist of Required Tools and Personnel for Erection

- **Required personnel for installation are 3.**
- **Qty 3: 3/4 inch sockets, 1/2 inch drive ratchets**
- **Qty 3: 3/4 inch wrench**
- **Qty 3: Pry bars**
- **Qty 3: Hammers**
- **Qty 1: Torque wrench**
- **Qty 1: Electric drill with 1/2 inch drill bit for drilling steel.**
- **Qty 1: Scissor lift**

ASSEMBLY of Static Model: SP24-8, SP22-8, SP20-8, SP18-8 & SP16-8

- **Installers must follow all OSHA regulations pertaining to the assembly of structures 6 ft or taller. Vertical Reality recommends the use of a lift; ladders are not acceptable for install.**
- **Weather considerations for set-up: Do not set up in rain, snow, sleet, hail or if wind is expected to reach 30 mph.**
- **Locate the first ring; this ring does not have any bands or netting.**
- **Set up the 3 base posts- Base post should be set up approximately directly 120 degrees away from each other. Base post must be held in place until the first two rings are installed.**
- **Begin with the bottom ring which is the only ring without any netting or elastics. Place this ring with the chain facing up. Secure the ring to the bases with supplied u-bolts. The posts are pre-drilled to accept supplied u-bolts. (see below)**



- **Install flat washer, spring washer and nut on both u-bolts. At this point in time we will hand tighten only. Repeat procedure for all support legs. For a total of 6 u-bolts per ring.**
- **Proceed to the next ring and bolt it to the post following the same procedure as above. This ring must be the ring that has the trampoline mat installed as this ring is the entrance and will have the appropriate net attached. The opening net has an opening of 36 inches in width. (see second Picture below)**



- **You are now ready to install the remainder of the rings. From the third ring to the top ring the ring must be positioned with the chain facing down. The number of rings will depend on the model you purchased.**
- **The next to last ring will have the widest net. (See picture below)**



- **The last and final ring will have a round net installed but no elastic bands. (see picture below)**



- **Once all the rings are installed, we must torque all u-bolts to 50 ft-lbs. There are 6 U-bolts per ring, requiring 12 flat washers, 12 spring washers and 12 nuts. Starting at the bottom of structure and ending at the top.**
- **We can now begin securing the nets to the levels above and below it, using the supplied lashings.**
- **Lashings are installed by snaking the lashing through the chain, net and securing a knot every 4 to 5 ft. (See picture below)**

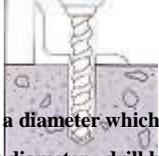


- Repeat the procedure above for the entire unit from bottom to top.
- The next step is to secure pads to all rings and uprights if not installed already. Pads have a slit on one side and are secured via supplied special zip ties. (see picture below)

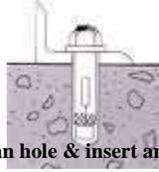


- **Indoor locations will require installing four Hilti red ½ by 3 inch long wedge anchors per leg of steel structure in required 4.5 inch min slab . Please see pictures below for installation instructions.**
- **Outdoor locations will require installing eight Hilti red 1/2 diameter by 5 inch long Galvanized wedge anchors per leg in required 10 inch min thick slab for 120 mph wind zone. Please see pictures below for installation. (please see appendix B for specific slab information)**

APPLICATION & INSTALLATION

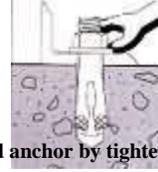


Using a diameter which equals the anchor diameter, drill hole to min embedment.



Clean hole & insert anchor.

Drive the stem till washer is flush



Expand anchor by tightening nut or head to proper torque.

- Repeat procedure above four times per leg, for a total of 12 anchors for all models.
- Torque all anchor nuts:
 1. $5/8$ diameter anchors require 85 ft-lbs
 2. $3/4$ diameter anchors require 150 ft-lbs
 3. $1/2$ diameter anchors require 70 ft-lbs

Setting up Spiral Slide-

- Spiral slide will come pre-assembled except for last section or exit of slide. Slide must be lifted into location.
- Spiral slide attaches to the top of the spider via three brackets. These brackets are installed once the spider is in correct position.
 - **Once the Spider is attached to structure it can be anchored. Please make sure base of slide is straight.**
 - **Spider base is anchored via 4 concrete anchors supplied.**
 - **Next step is to install slide exit, bolts are pre-installed. Remove bolt and slide Tube into each other. Bolt Holes will align once tube is inserted completely.**
 - **The final step is to install leg support. Leg support is bolted to slide and anchored to ground.**



Rock Panel & Auto Belay installs

- Rock panel will come predrilled and is attached to frame opposite

the tube slide. Fasteners will be included for install, 3/8 galvanized fasteners.

- Mount panel to frame.
- Mount auto belay frame to Spider Mountain. Auto belay attaches via supplied bolts.



- Mount top davit bar to spider via supplied bolts. Davit will come pre-assembled with cable and pulleys.



Weather Considerations

Wind

- **DO NOT operate or allow any participants in the Static Spider Mountain if wind speeds exceed 35 mph.**
- Do not set up or operate in inclement/severe weather .
- It is the responsibility of the operator, owner or other responsible party to be aware of weather conditions and make the appropriate call for closure of the Static Spider Mountain if necessary.

Lightning

- **DO NOT operate if thunder is heard less than 10 seconds after seeing lightning.**

Rain

- Spider Mountain can be operated in light rain with-out any adverse effects.
- Spider Mountain with climbing station can be operated in light rain with-out any adverse effects.

When closure of the Static Spider Mountain is necessary, **we recommend** that the opening be closed or covered.

Inspections and Preventive Maintenance & Wear Limits Checklist.

Daily Inspections

- **Check and replace elastic bands if needed (see Picture)**
- **Elastic wear limits: Replace when broken**
- **To replace elastic first remove broken strand and take note of its original orientation. We then measure the distance the elastic was installed and cut approximately 70 percent of the distance for the new elastic. Secure the elastic on one end via knot and stretch to original location to tie the opposite end.**



- **Check netting, lashing and zip ties (see Picture below)**
- **Netting Wear limits: Two or more broken strands will require net replacement.**
- **To replace net remove old lashing by cutting it from chain and remove damaged level.**
- **To re-install level, place the net in position and hold in place with 6 to 8 zip ties around the top of the net.**
- **Begin installing lashing through the top of the net & chain like a snake and secure via knot every 4 to 5 ft. Lashing should pull the net very close to the chain. Repeat procedure for bottom of net. Remove initial zip ties and inspect. There should be little to no gap between the net and chain.**



- Check padding and replace or repair if needed.
- **Padding Wear Limits: Replace when broken or ripped.**



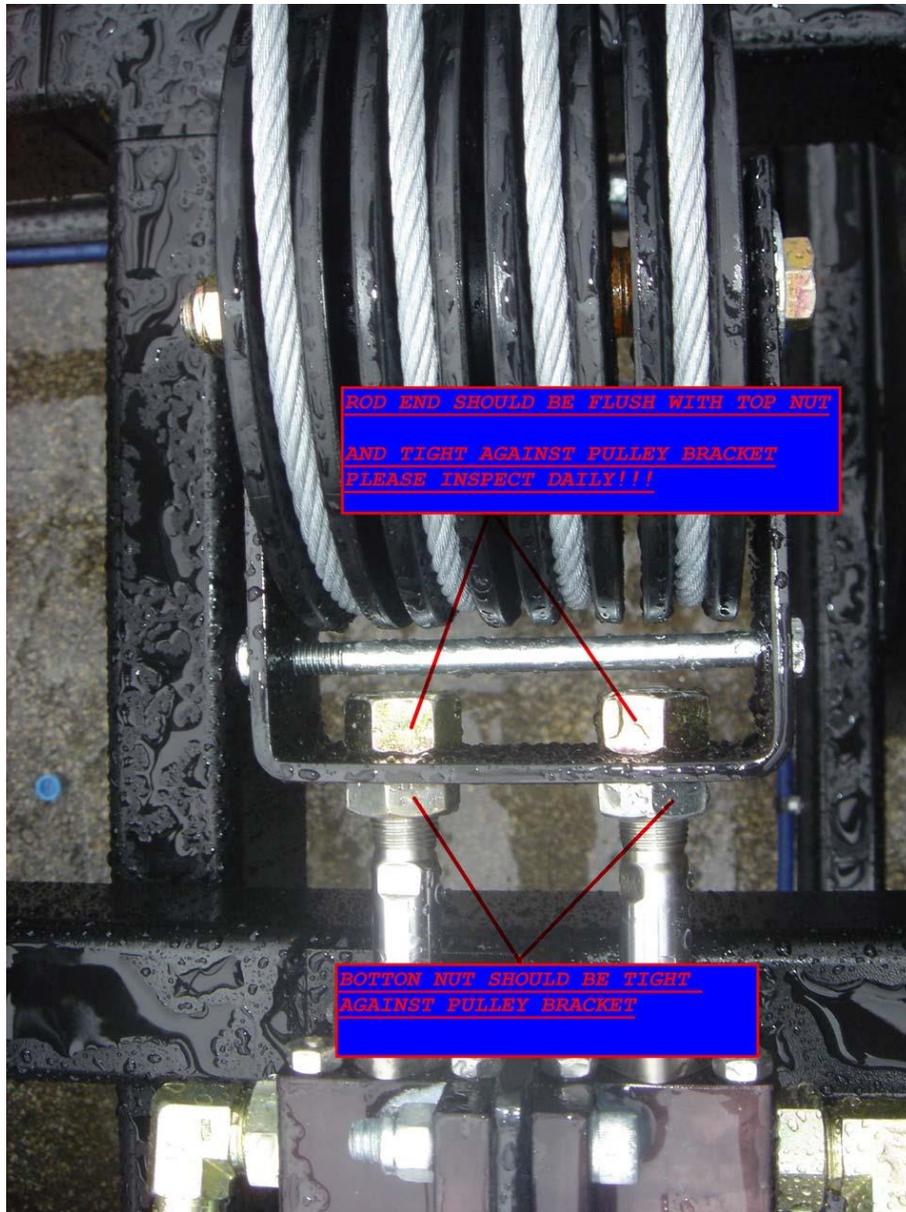
- Check trampoline pad and lashing, replace or repair if needed (see Pictures below)
- Lashing is installed in a zigzag manner through the pad and chain and secured via knot to the chain every 3 to 4 ft.
- Trampoline wear limits: Replace if any one hole is larger than an inch in diameter.
- Trampoline lashing limit: Replace any broken lashing. Lashing is installed by running the lashing through the mat ends and chains see picture below.
- Check Padding on entire unit, replace if torn. (To replace padding, begin by removing old padding by cutting old zip-ties. Padding has a slit down one side to fit over the rings or uprights. Secure new padding with zip ties every 24 to 32 inches.



- **If equipped with optional rock climbing wall:**
 1. The first step is to check that the auto belays are functioning properly, pull the cable to the down position using the attached rope and gently release if the cable retracts the system has passed the first test. **Absolutely no climbing should be performed on the wall if the**

auto-belay is not functioning.

2. Make sure to always inspect the Auto-Belay devices to ensure proper air-tank pressure (40 to 50 lbs) with all the cables at the top of the wall.
3. Check oil level in all pressure tanks with the cables at the top. **The appropriate amount of hydraulic fluid is 2 to 3 inches from the bottom of tank with the cables at the top of the wall. Required oil is AW 32 hydraulic oil.**
4. Check for hydraulic leaks from cylinders, hoses and tanks.
5. Visually inspect pulleys for each belay station. Check for cracks and broken edges.
6. Inspect all auto-locking carabineers for proper operation. **Carabineers must auto-lock when released. If they stick open or do not lock positively, replace immediately. Check Carabineers for excessive wear, if worn replace immediately.**
7. Inspect all rock climbing harnesses for wear, **special attention must be given to the main attachment point.** In addition, check each and every harness to ensure the stitching is tight. If the harnesses are visibly worn or are not functioning as intended discard immediately and replace with new harness. Again, as a matter of precaution, you may want to replace harnesses yearly. The Maximum life of the harness is three years from first use. You must keep track of the age of the harness.
8. **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 immediately.**
9. Check swivels at cable ends for proper operation. The swivel must spin freely and be equipped with both clevis pins and locking rings. If swivel does not spin it needs to be cleaned by blowing compressed air between the body of the swivel and the carabineer attachment point. Followed by a small application of wd-40 or any other quality spray lubricant on the same location.
10. Check top davit pulley for signs of wear, replace if necessary.
11. **Auto bailey Piston head bracket, must be inspected. Rod end should be flush with top nut and both nuts are tight against pulley bracket. If nuts are loose they must be re-tightened. (See picture on next page)**



- **Check that all pins are installed. Ride is equipped with three safety pins**
QTY: 1 1/2 inch by 5 inch Clevis Pin
QTY: 2 5/8 inch by 5 inch Clevis Pin

Mechanical Inspection:

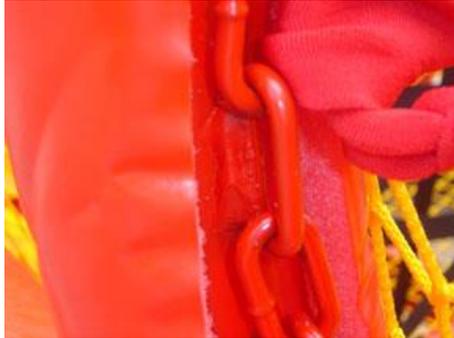
The safety check needs to be performed and we recommend a daily safety check sheet be filled out as mentioned above before every day of operation. These sheets then needs to be kept on file on site for random audits by either park officials or Vertical Reality representatives at all times.

Employee Documentation.

Documentation of employee training and status as well as a list of each employee have address and phone number. A training manual is to be on site at all times; Copies of this documentation are also to be handed out to Park's Games Department Management, to the Site Manager, and to a Vertical Reality Representative.

Monthly Inspections

- **Inspect welds on frame and chain.** (see Picture below)



- **If equipped with optional rock climbing wall:**
 1. Check pulley Movement and also check the condition of the welds on the pulley brackets and the pulley bar that attaches to the hydraulic cylinders, if there is evidence of rust please clean and inspect that the welds are still 100 %.
 2. Check the entire belay system frame for cracks.
 3. **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.**

YEARLY INSPECTIONS

- **Replace auto belay cables every year, cables must be purchased through Vertical reality manufacturing.**

NDT requirements

- Rides will require a 100% visual inspection at 7 years of age by a certified welder. Particular attention to all the structural welds on the Spider and metal condition.
- Rides will require a 100% visual and 30% magnetic particle test at 10 years of age by a certified testing company.

Wear Dated Items

- Elastic Bands
- Zip Ties
- Padding
- Netting

CHECK LIST INSTRUCTIONS:

- Place an X in empty boxes after each procedure is performed.*
- All operators doing the inspection must have read and understood all aspects of the operations manual.*
- All Proper OSHA & Ship safety procedures must be followed when performing any inspection work.*

Static Spider with Tube Slide Inspections Checklist

NAME:

DATE:

TIME:

LOCATION:

SHIP:

SIGNATURE OF OPERATOR:

POSITION:

- 1. Check and replace elastic bands if needed.
- 2. Check netting, lashing and zip ties.
- 3. Check padding and replace or repair if needed.
- 4. Check trampoline pad and lashing, replace or repair if needed.
- 5. Check Padding on entire unit, replace if torn.
- 6. Climb to the top of the unit and inspect slide entrance. All netting must be secured to the entrance of slide without any gaps. This is VERY important.
- 7. Check for any loose, broken or missing padding on the outside of the tube slide support connections.
- 8. Slowly slide down the slide and inspect for rough or sharp edges on the plastic and any loose fasteners.
- 9. Make sure slide exit mat is in place and clean

Monthly Inspections

- 1. Inspect welds on frame and chain.
- 2. Check all slide support connections and security cables.
- 3. Check inside the slide for any sharp ends or damage.

ADDITIONAL COMMENTS:

Cleaning Of Ride

- Do not use chlorine based cleanser or bleach to clean any part of the ride as this may damage the threaded seams, trampoline mat, netting and fire resistance of the items mentioned.
- Use water and/or an approved cleanser sparingly by “sponging” it onto the Game surface. Excessive water may penetrate the seams and collect inside the Game causing mildew and unwanted odors to occur.
- Blowing air through the ride will help dry the interior. Baking soda will help remove mildew and odors.

Operator Guidelines & Responsibility/Duties of Operator.

All operators must have read and understand the instructions in this manual and receive training by their supervisors prior to the operation of the Ride.

- Do not allow riders without the proper supervision present.
- **One operator required for the Spider Mountain with tube slide**
- **If equipped with a rock wall an additional attendant is needed.**
- **The duty of all operators is to ensure that all rules and guidelines mentioned are followed.**
- **Operators must be 18 years or older and physically able to climb up the structure if required.**
- **Operators must be able to give verbal commands and instructions to patrons at all times.**
- **Maximum amount off participants allowed inside the ride at any given time is 10.**
- **Maximum weight allowed inside the unit is 2380 lbs.**
- **Participants should remove their shoes and all Jewelry.**
- **Ensure loose clothing is secured and participants must empty pockets of loose objects e.g. coins, Static phones etc.**
- **Anyone with long hair must tie their hair into a pony tail.**
- **No horseplay or fighting allowed. Operator should first instruct patrons to stop with a warning. If warning is not followed, operator must ask patron to exit the ride.**
- **Try to limit groups of the same size kids at a time.**
- **Only allow three patrons in at a time until the first level is clear for**

the next three until max occupancy is achieved.

- **The weight range for the Static Spider Mountain is 30 - 250lbs & with a Minimum Height of 42". No age limits.**
- **Operator must not allow any gum chewing inside the Ride.**
- Confirm the number of attendants required for the ride.
- Make all riders aware of safety rules.
- Operator should make sure that no one enters the Spider with eyeglasses, or sharp objects in their hair, clothing or on their person.
- No Flips, somersaults, diving, rough play, or running.
- Do not allow food or drinks into the ride
- Do not allow animals into the ride
- Operator should point out and make participants aware of the posted warning and safety rules.
- Operator should be close enough to be able to warn against improper behavior
- Operator should ask anyone doing these things, after being warned once, to exit the Ride.
- Cease operation in winds in excess of 30 m.p.h.
- Cease operation in stormy or severe weather.
- Do not operate Ride in total darkness.
- One participant at a time down the slide.
- Do not try stop yourself from sliding down the slide.
- ***Guide Lines for optional rock climbing wall***
 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 operator only, no distracting other climbers with idle conversation.
 6. When rappelling, keep the kick-off distance to a minimum (approximately. 3 feet from 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 – 250 lbs & a Minimum Height 42".
 10. Do not allow someone to sit and bounce on the belay cable when finished rappelling. Have them rappel onto their feet.
 11. 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/ operator 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 rappelling climber. The distance we recommend approximately. Eight (8) feet from the front surface of the Static 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 encourage their use.*

12. Have climbers form a line and use the following instructions for putting on and taking off:
 - Untangle the harness ensuring that there are no twists.
 - Identify the front and back, the front has the large stitched loop for the carabineer.
 - Step into the loops of the harness and pull them up to the tops of your thighs.
 - Buckle the waistbands securely and leave at least 3 inches of nylon pulled out.
 - Tug the harness to ensure it is comfortable and secure.

Owners Responsibility

Employee Documentation:

Documentation of employee training and status as well as a list of each employee home address and phone number. A training manual is to be on site at all times; Copies of this documentation are also to be handed out to Park's Games Department Management, to the Site Manager.

- The owner must insure that proper training and safety practices are being followed at all times. The purchasers / owners must ensure that the operator understands and follows all procedures in the manual.
- A certificate of training must be filled out and completed to ensure compliance. Owner should make sure all weekly, monthly and yearly maintenance is performed and that a service sheet be completed and filed for future reference.

POSTED RULES AND SAFETY SIGN FOR PARTICIPANTS

- **Participants must remove their shoes and all Jewelry for Spider Climb.**
- **Please read all safety rules.**
- **Ensure loose clothing is secured and empty pockets of loose objects e.g. coins, Static phones etc.**
- **Participants with long hair must tie their hair into a pony tail for Spider Climb.**
- **No horseplay or fighting allowed. Failure to comply will be cause for removal from attraction.**
- **No Flips, somersaults, diving, rough play, or running**
- **You must weigh between 40 - 250lbs & have a Minimum Height of 42". There are no age limits.**
- **For Rock climbing wall:**
 1. You must weigh between 40-250 lbs & have a minimum height of 42".
 2. No swinging from side to side.
 3. No stepping on the belay cable.
 4. No climbing if cable does not retract.
 5. When rappelling, keep the kick-off distance to a minimum (approximately. 2 - 3 feet from the wall).
 6. No climbing with open toe shoes (i.e. no sandals, thongs, etc.)
 7. Climber must never climb higher than chest high to the top of the wall.
 8. Do not sit and bounce on the belay cable when finished rappelling.
- **FOR TUBE Slide**
 1. One person at a time down the slide.
 2. Do not try to stop or block slide.
 3. Walk away from slide when done.
- **Only similar age groups should play together. Do not mix age groups. Riders should all be of compatible age and size.**
- **Do not Participate If You**
 - Have had back, neck or heart problems.**
 - Have broken bones, are pregnant.**
 - Have physical or medical problems.**
 - Have limb problems.**
 - Are under the influence of drugs or alcohol.**
 - Unsure of your general Health.**
- **No gum chewing allowed inside or around attraction.**

Spider Mountain Emergency Evacuation Procedures

In the event of an unforeseen accident inside the unit or a sudden change in weather. Operator should instruct all occupants below the accident level to calmly exit the Spider Mountain and all occupants above to wait until instructed to do so. If someone requires assistance, the operator must climb inside of the unit, this will allow the quickest response time to an injured patron. It is the operator's responsibility to assess the injury of the patron in the extremely unlikely event of an accident and determine whether to wait for professional help i.e. 911(paramedics) or assist the patron down by staying as close to the edge as possible. In the event of a child becoming frightened or panicking **(NOT AN INJURY)** the operator should climb to the child and help him or her exit the ride via the entrance.

Owner / Operator: Risk Assessment

WHAT ARE THE HAZARDS WHICH MAY CAUSE:	Who/what may be harmed?	What is done now?	How bad is the risk?	What needs to be done?	By When?
Fall from height through webbing rings	Participants	Descend one level at a time. Use webbing levels to halt rapid descent. Matting provided to break a fall and prevent injury on lowest ring	LOW	Observe safe practice by listening to climbing and descending advice.	Ongoing
Descending onto other climbers	Participants	Good observation by climbers whilst descending	LOW	Observe safe practice by listening to climbing and descending advice. Shoes removed prior to climbing	Ongoing
Attempted exit through side / top netting	Participant	Observe safe practice by listening to participation advice. Safety side / top netting is not part of the climbing experience.	LOW	Regular inspection of netting integrity and securing straps	Ongoing
Minor bodily injury to other climbers	Participants	Consider safe route to ascend / descend away from other climbers. Good observation by climbers at all times	LOW	Observe safe practice by listening to climbing and descending advice. Shoes removed prior to climbing	Ongoing

WHAT ARE THE HAZARDS WHICH MAY CAUSE:	Who/what may be harmed? <small>(give specific groups of people e.g. staff, visitors, contractors, pupils, residents, cleaners, disabled etc and estimate numbers; include significant property damage)</small>	What is done now? <small>(i.e. provision of training, corporate and local standards complied with, existing codes of safe working practice, protective equipment, guarding, supervision, monitoring systems, specific assessments under health and safety regulations, e.g. COSHH, DSE, noise manual handling, fire etc)</small>	How bad is the risk? <small>(Evaluation of risk: LOW MEDIUM or HIGH)</small>	What needs to be done? <small>(What action should be taken or needs to be considered in order that the risks identified are effectively controlled)</small>	By When? <small>(What is the target date for completion)</small>
Injury caused due to contact with metal ring assembly	Participant	Padding installed to protect inadvertent contact with the metal framework	LOW	Ensure padding is secure and no metal framework exposed within the climbing area	Ongoing
Injury to climber caused by loose clothing, jewellery or spectacles	Participant	Ensure loose clothing is secured and dangling jewellery and spectacles are removed to avoid potential hang-ups or injury when climbing through webbing	LOW	Observe safe practices. Use storage boxes provided for jewellery, spectacles, security tags etc. Use storage boxes provided for jewellery, valuables, mobile phones etc.	Ongoing
Head injury from falling objects	Participants	Empty pockets of loose objects e.g. coins, mobile phones etc.	LOW	Check banding for excessive wear at fixing points and along the length of the bands. Replace as required.	Ongoing
Falling/Injury due to breakage of a webbing band	Participants	Multiple individual webbing bands per level ensure adequate support in the event of a single band breakage. Fabric bands are 'soft feel' and reduce potential whiplash injury.	LOW	Lower the Spider into horizontal position if not in use. Secure elevation switch.	Ongoing
Injuries occurring during unsupervised use / access	Participants	Restrict access when not in use.	LOW		Ongoing

Entertainment Tips

Never forget that your Static Spider Mountain 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 Static Spider Mountain can be equipped for corporate advertising generating revenue up and above the charge by the climb revenue.. The Static Spider Mountain 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 Static Spider Mountain is marketed to its fullest.

Conclusion

This guideline has been written to assist in the proper installation and operation of the Static Spider Mountain. Vertical Reality has tried in its best effort to address relative issues; however, there will 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 judgment while operating and transporting the Static Spider Mountain.

Warranty (from date of invoice)

WARRANTIES. Seller warrants that all Goods shall be free of defects in material and workmanship. STATIC SPIDER MOUNTAIN products have a limited three-year warranty on all steel structure and pieces. Warranty does not include consumables (harnesses, handholds or spider webbing). Static Spider netting has a one year warranty, does not cover installation. We have a 90-day warranty on electronics, 30-days on labor, 90-day on parts. This warranty does not apply towards normal wear and tear on products nor does it apply towards misuse on products. Auto-belay systems are warranted for the original purchaser(s) for one year.

The Seller makes no warranties, expressed or implied, except as specifically stated above. SUCH WARRANTIES ARE IN LIEU OF ALL OTHER WARRANTIES, WRITTEN OR ORAL, STATUTORY, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION, ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

SELLER SHALL IN NO EVENT BE LIABLE FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OF ANY NATURE, EVEN IF SELLER HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

The Seller shall only be obligated to repair a defective item. If the item(s) cannot be repaired, the Seller shall only be obligated to pay damages up to an amount equal to the sale price of the item(s).

Static Spider Mountain with Tube Slide and Rock Wall

Preventative Maintenance

Schedule Sheet

Inspection Date:

Detail of work completed:

Items replaced:

Inspected by:



Accident Report Form

- 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 Static Spider Mountain :
- Was the Static Spider Mountain shut down for inspection after the accident occurred :
- Name of person signing the report :
- Signature :

NAME: KEN SHARKEY



KEN SHARKEY - CEO



Confirmation of Shipping list and Certification of Fabrication

Inspections were performed by a Vertical Reality supervisor at a level of frequency sufficient enough to ensure compliance; as a result the ride as fabricated, is in compliance with the applicable drawings, specifications and shop drawings;

That the fabrication of the ride including the material and the connections was accomplished in accordance with the design drawings and specifications; validated shop drawings and fabricators manufacture Quality Assurance Program;

That the fabrication of the ride was done in accordance with the applicable provisions of the current AWS Code; AISC Code & Specifications and other appropriate Codes and or standards;

That the welding of the ride was performed by certified welders (duly certified per AWS Code provisions);

That the inspection of the welding was performed by certified weld inspectors (certified in accordance with AWS Code)

That the ride as fabricated meets or exceeds the design criteria

That all the parts and hardware have been checked and are included in the shipment unless noted otherwise.

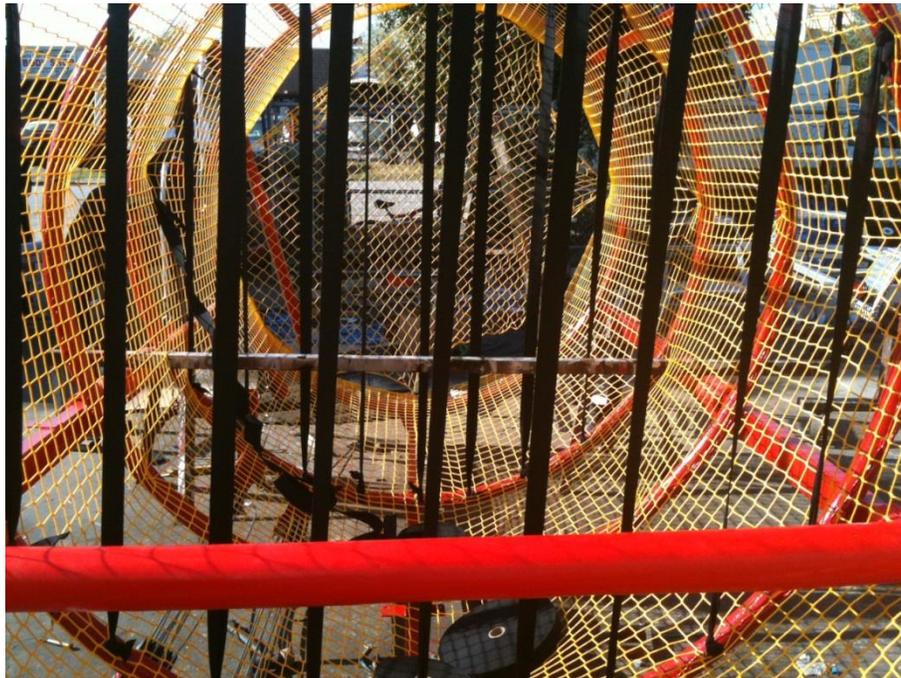
Signature of Supervisor:

Date:

APPENDIX: A

Elastic Banding Install Procedure for all Spider Mountains 8ft to 12ft Rings

- **To replace elastic first remove broken strand and take note of its original orientation. Secure the elastic on one end via double knot. We then measure the distance the elastic was installed and cut approximately 70 percent of the distance for the new elastic.**
- **For a new installs, we use the same procedure above by attaching a band on one end via double knot and cutting the elastic about 70% of the distance that it is intended to be attached to. The band is then stretched enough to go through the chain and tie a double knot to complete the process. The first row of bands will be installed vertically. Bands will be spaced evenly apart from each other. For a total of 9 to 10 bands. See picture below. Bands can be installed with the unit upright or laying down horizontally as shown in pictures below.**



- Second row of bands will go horizontally, following the same tie off procedure. You should have 9 to 10 bands horizontally. The bands are weaved over the first band they cross and under the next, then over again until they are tied to opposite end. See picture below. At this point you should have 18-20 bands.



- Third row of bands is the first of the diagonal bands “ \ ”. Third row is also weaved over, under etc. The spacing between these bands will be slightly larger than the previous bands but will still be evenly spaced. Install 7 to 8 diagonal bands in this direction (see picture below).



- The fourth row of bands is the second of the diagonal bands and they go in the opposite direction as the one before it “ / ”. These bands are also weaved over under and are spaced the same as above. You will have 7 to 8

bands in this direction. The diagonal bands form an X, at this point you should have a min of 32 bands installed. The range of bands is 32 to 36 per layer.



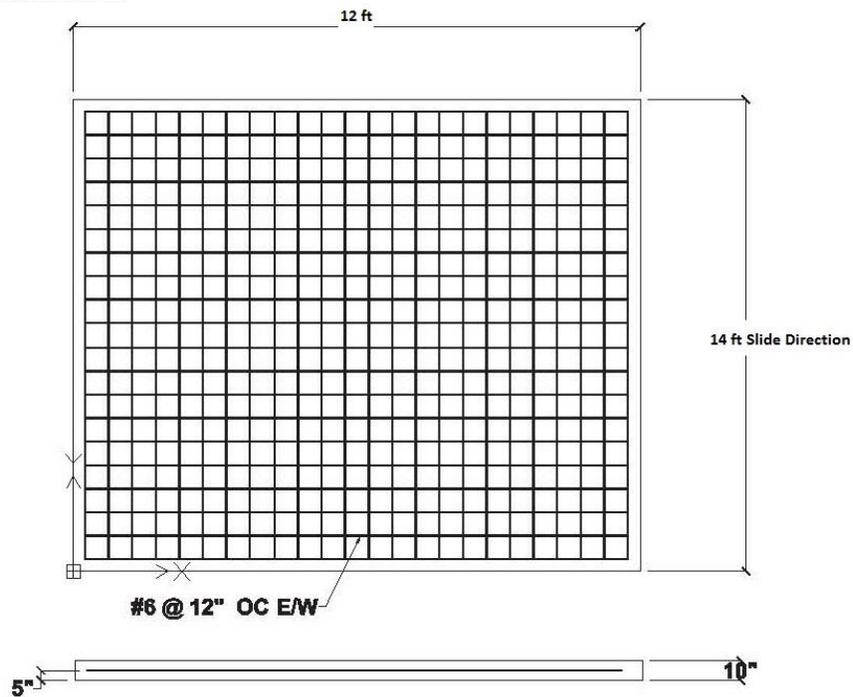
APPENDIX B

24 FOOT Static Spider FOOTING VERTICAL REALITY

02/10/2014

FOOTING DESIGN

Configuration



NOTES

1. Concrete to have 28 day strength of 4000 PSI.
2. All Reinforcing to be ASTM A615 Grade 60.
3. Anchors to be Hikti Kwik Bolt TZ galvanized wedge type with a min diameter of $\frac{1}{2}$ " with $3 \frac{1}{4}$ " embedment.

NOTES