



BUNGEE TRAMPOLINE 4 in 1

**OPERATING
AND
MAINTENANCE MANUAL**

Maintenance and operation manual of the 4 person BUNGEE TRAMPOLINE.

It is with great pleasure that we congratulate you on Your purchase. We are excited about our products and feel confident that through proper planning, placement and hard work, the Bungee Trampoline system 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.

Our main goals:

- Safe and profitable design
- Professional customer service support
- Manufacturing according to technical calculations
- Bungees made for earning money by our customers

Your part in our cooperation is:

- Commitment to safe operation
- Consistent inspection for proper maintenance

Best regards,
Bartosz Buzdygan , general manager

Introduction

This Training/Operations Manual is an important document intended to help you become acquainted with the bungee trampoline system and guidelines as to safe and recommended operation.

Please read the following statement and sign below to indicate your receipt and acknowledgment of the bungee trampoline system.

I have received and read my copy of the bungee trampoline system made by Eurojumper Training Manual. I understand that the information outlined in this manual are subject to change at the sole discretion of Eurojumper at any time. It is further understood that the owner of bungee trampoline system has the responsibility to ensure the correct and latest version of the manual is being used.

I understand that my signature below indicates that I have received the bungee trampoline system Training Manual and that I have read it.

Please send back the signed document. If we do not receive it, the warranty is not valid.

.....
Authorized Representative of buyer, Date

Training Overview

This manual contains an introduction to the 4 in 1 bungee trampoline system and its operation. It may not be comprehensive but can form the basis of the training of Operators, Attendants and Assemblers.

The manual provides a compilation of information that will assist in the correct and safe operation of the device.

The manual is designed to provide the device owner with the information, tips, and techniques that will help the operator and attendants to operate the device safely.

It may not be a total representation of all facts.

The safe operation of this device is the sole responsibility of the owner/operator. Good and reasonable judgment must be used when assembling, assembling, maintaining and operating the Bungee Trampoline.

Training Objectives

Product Overview

The bungee trampoline system is great play for children and adults. It can be financially rewarding, with up to 50 users per hour, but remember the main goal is to provide a good experience in a safe environment. The bungee trampoline system is made from quality materials and has been subject to a thorough and detailed technical appraisal. Every bungee is assembled and thoroughly tested before selling.

EuroJumper has a comprehensive quality assurance system and uses quality control measures to ensure product reliability and safety.

The enclosed information is an outline of the procedures for safe operation and assembly of the product.

The Operational & Safety Guidelines - Must Be Carefully Read and Followed Before Using the bungee.

Warranty (from date of invoice or delivery)

Bungee products have a **two-year warranty** for the construction , including the trampolines and winches (subject to correct maintenance, assembly and adjustment). Warranty does not include any consumables (harnesses, cables, pulleys, elastics, trampoline beds, etc).

This correct training procedures and operation of the device must be implemented in order to ensure the safety of all who come into contact with the bungee trampoline.



The controller of the device is responsible for ensuring that

- The operators and attendants are trained and competent
- The device is assembled and maintained in accordance with the recommendations of this manual
- The users of the device are briefed on the safe use of the device

Introduction to the bungee trampoline.

This spectacular fun-device can be enjoyed by all ages, allowing all skill levels to partake in the experience, acrobatics (if competent) and the exercise that build confidence and aids development.

The bungee trampoline comes complete with all major components :

- Aluminum-steel construction
- 8 big tubes (4 legs and 4 arms)
- 4 small tubes (the vertical supports between the legs and the arms)
- 4 winch motors
- 4 trampolines
- 4 sets of elastics
- Ropes, pulleys and carabiners
- Tensioning steel cables
- 4 Bungy-Trampoline-Harnesses (1 L, 1 M, 1S , 1 XS)

Assembly

You can find the photographs relating to the assembly on the last pages, showing the step by step assembly of the bungee.

Preliminary:

Carry out an assessment of the site.

- ◆ The site should be level
- ◆ The surface must not be slippery,
- ◆ Any maneuvering vehicle must be guided by a banksman
- ◆ The public must be kept clear during maneuvering and assembly

Step 1: Place the unit on level ground in a position that faces the crowd and pedestrian traffic flow, and insure that you have sufficient overhead clearance to operate the unit (no overhead electricity cables within 8m of any part of the device) or obvious obstacles that might impede the jumper using the device

Step 2: Raise the main mast and set it up in position on the base cross so that the other tubes can be connected;

Step 3: On the main mast there are profiles where the leg supporting tubes should be connected and secured with pin fastenings;

Step 4: At the bottom of the legs insert the metal base plates and secure with the bolt.

Step 5: Connect the chains to the metal cross under the main mast;

Step 6: Connect the tensioning cables between the base plate on the end of each leg and cross under the center mast;

Step 7: Connect one end of the arm tubes to the main mast and secure with the bolt;

Step 8: Connect the "alpin" ropes to the end of the arms;

Step 9 - 10: Connect all steel cables to the eye bolts on the end of the arm pole. Connect the pulleys to the eye bolts. Connect the 80 mm pole to the arm tube and secure with the bolt. Using the 80 mm tubes, lift the arms and place the bottom of the 80mm tube on the fixing on the supporting leg;

Step 11: Connect the "alpin" ropes over the pulleys on the top of the main mast;

Step 12: Connect the steel cable from the arm pole to the top of main mast;

Step 13: Tension each arm with the steel cable;

Step 14: Using steel cables connect the arm tubes with the center mast;

Step 15: Put the winch on the bottom cross and connect the "alpin" rope from the winch with the "alpin" rope on the main mast;

Step 16: Connect the elastics to the end of "alpin" rope. Connect the harness to the elastics ;

Step 17: Set up the trampolines using the procedures in the users manual supplied with them.

The structure

Before each session

- ◆ Ensure that the frame is clean and dry, and free from defects.
- ◆ Ensure all tubes are correctly positioned and pinned in place, see the construction manual for guidance.
- ◆ Ensure all ropes are connected to the arms, correctly aligned and move freely through the pulleys. Ensure the pulleys are correctly aligned so that the rope does not rub against the cheeks of the pulley.
- ◆ The stay wires must be correctly adjusted to ensure the arms and legs are stable and correctly supported
- ◆ The puck on the winch rope must be correctly adjusted to ensure the knot at the end of the rope does not pull into the cheeks of the pulley, which can cut into the rope.
- ◆ Stop the operation immediately if any of the mentioned criteria's are not achieved!

The Winch

- ◆ The winch is the mechanism that raises and lowers 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 cables are untangled and freely moving; this should constantly be monitored. Make sure that the winch and all cables attached to it are in good and working order. **The winch must be covered in order to keep it dry and prevent any risk of injury in mechanical parts. The winches must be removed when the device is unattended.**
- ◆ The instructor can use the winch to help the jumper achieve the highest possible jump. This is done by slowly winching in the rope while the jumper is bouncing on the trampoline. Do this with extreme care and caution.
- ◆ The operator must only use the winch to raise or lower the jumper.



- ◆ Do not pull down the jumper by pulling the harness or the elastic. The controller must prepare a safe method of retrieving any user that is stranded in the air, as a result of a power failure.
- ◆ Always monitor the rope of the winch to ensure it is under tension 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 and injury to the user. **You must replace the winch rope after 1000 jumps.**
- ◆ At the start of each day check the puck on the rope activates the winch cut out before the knot at the end of the rope pulls into the cheeks of the pulley
- ◆ Finally, do not allow any untrained person to operate the winch controls or be near the winches at any time.
- ◆ Electrical supply - Only use 3 core 4 sqmm "Arctic" electrical supply cables with 16 Amp plugs and sockets that provide IP45 protection from a 230V 50 Hz TNS supply.



The Elastics

The ropes, in conjunction with the harness, connect the jumper to the top of the arms of the bungee trampoline and it is the elastics and the trampoline that allows the jumper to reach incredible heights while simultaneously providing the stability.

The elastics are made for the various weight ranges of the jumpers, who must be between 16 and 85 kg or 4 and 99 years old.

The elastics should be monitored constantly for signs of wear and tear. Should an elastic break or look worn, replace it immediately.
Never use less than 2 elastics per side of the harness.

The elastics have a life-span of approximately 1000 jumps (based on 4-minute duration jump cycle and four trampolines). **The elastics should be replaced regularly for optimal use and safety.**

Only replace the trampoline elastics with elastics from **EuroJumper** do not use any other elastic system. Failure to do so will result in the negation of your warranty and we cannot guarantee the safety of the users. Be sure to store the elastics in a dry place. Should the elastics get wet, dry them completely before using them again.

To obtain replacement Bungee Elastics email Euro Jumper on info@eurojumper.pl or visit our online store : <http://www.sklep.eurojumper.pl>

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

1. Connection from jumper harness to the elastics and ropes

- One aluminum carabineer is connected to each side of the harness
- The Aluminum carabineer connects to the elastics (the number of elastics will depend on the users weight)
- The other end of the elastics connect through an aluminum carabineer to the swivel
- The other end of the Swivel attaches through a steel carabineer to the rope.
- This is repeated for each side of the harness.

2. Connections from the aluminum arms of the device to the rope system.

- One steel carabineer attaches to the Eye Bolt at the top of the arm
- The steel carabineer attaches to the top pulley swivel
- Attach a second steel carbineer to the other end of the top pulley swivel

The users

- The minimum weight of a person using the bungee is 16 kg.
- The maximum weight of a user of the bungee is 85 kg.
- There are no height restriction.
- The rider harness must be secure and fit correctly

(The correct fitting of the harness is critical to ensure the users are secure and cannot slip out of the harness)

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

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

Body Weight of Jumper (in kg) Number of Elastic to be attached to Each Side of the Harness.



Never use less than two elastics on each side !

Kilograms	Number of elastics
16-20	2
21-30	3
31-35	3
36-45	4
46-50	4
51-55	5
56-65	5
66-70	6
71-75	6
76-85	7

A copy of this chart should always be displayed at each trampoline for quick reference. This chart is meant to be a guide but the number of elastics needed may vary 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 the jumper is at upper end of weight range and/or if jumper is very dynamic and athletic.
- Never use any elastic that show signs of wear and tear.
- Always replace elastics with genuine Euro Jumper elastics; failure to do so will void your warranty.
- A jumper who is unable to refrain from swinging back and forth during the jump may be attached to the incorrect number of elastics and the session must be stopped. (Be careful when lowering the person to ensure they are not at risk of falling on the frame of the trampoline or of landing on their head)
- The user should not perform acrobatics unless you are completely satisfied that they are competent to do so.

The Harnesses

The harness is the actual link between the jumper and the elastics system. To safely utilize the bungee trampoline, both the jumper and the instructor need to fully understand proper harness fitting, adjusting, and positioning techniques. There are 4 sizes of harnesses:

- Extra Small (XS),
- Small (S)
- Medium (M).
- Large (L)

The jumper should be fitted in a tight-fitting harness;
The jumper should wear the smallest size he/she fits.

Using the correct size is very important for both safety and comfort.

The following is the correct harness fitting procedure:

- The jumper must stand in front of the harness and get them to step into the leg loops.
- Place the waist belt above the hips of the jumper. This belt must sit as low on the waist of the jumper as possible.
- Fasten the buckle
- Tighten the strap around the hip, don't tighten too much, check the jumper feels comfortable.
- The carabineers (safe snap links) should be on the outside and above the hips of the jumper.
 - ▣ If you when you tighten the waist strap it cannot be pulled up sufficiently to be tight and secure around the user's waist, use a smaller harness.

Remember -

- ◆ If the jumper does not fit in any of the harnesses, do not let them use the bungee.
- ◆ The harness should fit the jumper tightly, but not so tightly that it is uncomfortable. The leg loops 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 bungee.
- ◆ Should the harness become uncomfortable for the jumper during their time, instruct them to stop their movement and lower the winch down so the instructor can fix the harness.

**We have noted that some operators fit the harness with the waist buckle at the back – This is incorrect and potentially dangerous.
The waist buckle must be at the front!**

The Trampolines

- ◆ Once the jumper is standing safely on the trampoline, attach the harness immediately 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 must not allow any horse-play on the trampolines.
- ◆ Always make sure that the springs of the steel frame trampolines are covered with the soft cover to prevent any injuries and to prevent risk of ankle traps between the springs.
- ◆ The jumper must try to stay in the center of the trampoline for maximum stability and the best jumping experience.
- ◆ The operator must not allow anyone else besides the jumper on the trampoline while the bungee is in use.

Safe Use & Warnings

It is very important before using the bungee trampoline, to confirm that the system has been properly assembled in accordance with the manual. If you have any questions concerning the bungee trampoline structure, assembly, ropes, winches or elastics, contact customer service at: +48 609 655 895.

Be sure that the correct space is provided for the assembly of the bungee trampoline. In addition, be sure to erect the bungee on a relatively flat ground. Flat, grassy fields or asphalt are ideal for the bungee. Do not erect the bungee on sloping or uneven surfaces that cannot resist weight or pressure.

It is very important that during the operation of the bungee, the attendant and operator, continuously monitor the rope assembly to ensure it is running smoothly and freely through the pulleys and onto the winch. Should the cables and/or ropes become entangled or are not moving freely, DISCONTINUE THE USE OF THE BUNGEE.

It is very important to check the elastics, cables, ropes, harnesses, connection points, and technical parts daily. The elastics need to be replaced approximately every **1000 jumps** (based on a 4-minute duration) or about 100 hours of use. The ropes need to be replaced once a year or after **1000 jumps** regardless of condition. Replace elastics and/or ropes at the first sign of wear and tear. 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 bungee. The use of unsafe materials will void your warranty and result in an unsafe situation.

Never allow horse-play around the bungee. 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 operator must maintain a safe environment not only for the jumpers but also for the instructors. Keep queues around the bungee orderly to prevent confusion. No smoking, food, or beverages should be allowed in the bungee area.

The instructor must always monitor the height of the jumper's bounce, making sure there is always enough clearance. Do not let the jumper bounce away from the center of the trampoline.

Jumping persons

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 bungee. Jumpers should read and obey all rules, warnings, and instructions and should know they participate at their own risk. **Eurojumper** cannot be held responsible for any injuries incurred and/or items lost or broken while on the bungee.

Daily Check

The following checks should be performed before the bungee is used:

- Check the harness before You start the operation. Check the belts, check the buckles and check the carabeena hooks
- Check all cables and cable attachments for tautness and stability.
- Check all carabineers (snap-links) for unusual wear. Be sure they open and close smoothly.
- Check the winch for proper movement and that all cables/ ropes move freely onto and off the drum.
- Check to see that the ropes are moving freely through the pulleys.
- Check all elastics for wear and deterioration -- replace if necessary.
- Check all connection points on the structure.

- Check to see that all bolts and pins are in place and secure.
- Check to see that all parts are dry and clean.
- Check all connection points of the harnesses for deterioration.
- Check the trampolines frame for deterioration or deformation and be sure the springs are present and are covered by padding.
- Check that all signs and warnings are prominently displayed.
- Check the carabiners daily
- Check the swivels daily
- Check the bungee elastics daily
- Check the winches operating daily

Documentation

- ◆ Pre-use inspection sheets must be completed at the start of each days use
These sheets must be kept on file on site.
- ◆ Employee Documentation. - Documentation of employee training and status as well as a list of each employee with addresses and phone number. A training manual is to be on site at all times; each employee should be familiar with the manual

The Staff

- ◆ The training manual describes the training and knowledge necessary to become an operation staff member. This training must then be documented as mentioned above.
- ◆ The Interaction between the Instructor & Jumper
The instructor plays an integral role in the success of the jumper while on the bungee. He/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.
- ◆ The Professional Instructor / Operator
The professional instructor needs to be completely aware of the jumper's situation, maintaining the highest level of safety possible. In addition, the instructor needs to fully understand the construction design, the elastic, and harness systems.
For safety purposes an instructor is not allowed to work more than two trampolines at a time. This means that a minimum of one operator per two trampolines is necessary for operation.
The operator is fully responsible for the safety of the jumpers on his/her assigned trampolines.

◆ The Jumper

Practically anyone can participate in the bungee. The jumper must be no younger than 4 years of age and no more than 99 years of age and must weigh between 16 and 85 kilograms. The jumper **should** be in good health. It is also very important that the jumper obeys all posted rules and warnings and listen to the instructions given. Most importantly, the jumper needs to be honest regarding his/her weight for proper harness fitting. (We recommend that weighing scales are available)

◆ Here are some hints to ensure success:

- The jumper should hold onto the elastics at all times, using them for support and stability.
- While holding onto the elastics, the jumper may pull on the elastics, using their muscles to increase their height and momentum.
- The jumpers need to feel and enhance the bouncing motion, using the trampoline to boost themselves higher.

Final tips

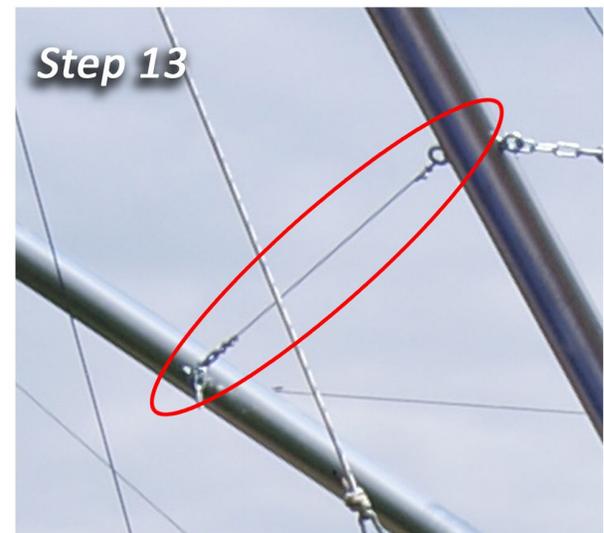
This guideline has been written to assist in the proper installation and operation of the BUNGEE TRAMPOLINE SYSTEM. Our company has tried to address all safety issues; however, there will additional information learned or situations that occur, that we are unaware of at this time. Please, do not hesitate 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.

REMEMBER:

JUMPERS PARTICIPATE AT THEIR OWN RISK.











EURO JUMPER

www.eurojumper.pl

Appendix 1

Emergency Evacuation

Ride Malfunction/Power Failure:

- The entrance and exit to the ride are closed off to the public by the ride assistant.
- The ride is to be stopped immediately.
- All Jumpers are to be removed from harnesses.
- Manager to be notified **IMMEDIATELY**.
- The ride operator with the assistance of the attendants can therefore immediately access and escort children safely off the ride to their respective parent or guardian.
- All power to the ride is switched off at the mains. (**Only if will cause harm to persons by being left on TURNING OFF MY CAUSE PANIC IN CUSTOMERS**). Electrical problems if harm to persons turn off power **IMMEDIATELY**.
- A sign will then be put up informing the public that the ride is closed and the queue will be asked to politely disperse refunding all that are in the que and also those having been on the ride.

THE RIDE IS NOT THEN TO BE OPERATED UNTIL IT IS AUTHORISED BY THE OWNER ONLY.

Fire Safety:

- In the event of fire the manager to be notified **IMMEDIATELY**.
- There are tested fire extinguishers for each ride at **EVERY RIDE**.
- The operator will organise the departure of all persons from the device in an orderly and safe manner to a safe area away from any fire and to the site emergency exits if necessary.
- In the event the fire cannot be contained Emergency services shall be notified by quickest means available and without hesitation by a supervisor or management.

Accidents:

- Attend to the casualty immediately. (**REMEMBER YOU MUST BE QUALIFIED TO ADMINISTER ANY MEDICAL AID**).
- Any ride or device is not to be operated with any person injured or requiring medical assistance within the ride or device.
- **DO NOT** move any injured person.
- Notify Manager **IMMEDIATELY**.
- If ANY accident requires medical assistance EMLLC Safety Manager to be informed **IMMEDIATELY**.
- If serious, Safety Manager AND Global Village Management to implement Major Incident Plan.

All incidents covered above MUST be logged on the OPERA system