

BRAKE TROLLEY CATCH ACCESSORY

Operator Manual

Model: CT 125-17



NOTE TO INSTALLERS

Always Read Instructions Before Use

The Operator Manual contains information relating to the proper use of the Brake Trolley Catch Accessory and includes all product registration and warranty information. This document may only be removed by the end user. Ensure that this Operator Manual is readily available to operators at all times.

Head Rush Technologies Brake Trolley Catch Accessory Operator Manual P/N 01270057702

Head Rush Technologies products are covered by a number of patents, including U.S. Patents 8,490,751; 8,851,235; 9,016,435; 8,851,235 and D654,412 & corresponding patents/applications in the USA and in other countries worldwide.

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IMPORTANT SAFETY NOTICE Zip Lining is a Dangerous Activity

Read Before Installation & Operation

Failure by the installer or operator to heed any and all instructions, warnings and cautions for the correct installation, operation, care, and maintenance of the Brake Trolley Catch Accessory, zipSTOP Brake Trolley, Impact Trolley and associated equipment may result in serious injury or death.

The Brake Trolley Catch Accessory and all associated equipment is designed and specified for use in the recreational zip line industry as a rider retrieval device when used in conjunction with the zipSTOP Brake Trolley and Impact Trolley. Use of the Brake Trolley Catch Accessory for any purposes other than that intended by the manufacturer is not permitted.

Always employ an Emergency Arrest Device (EAD) with any zip line braking system. If using the zipSTOP as a primary brake, the installer must utilize an independent Emergency Arrest Device to protect against operator error and third party equipment failure. Design and installation of the zip line, including the complete braking system, is the responsibility of the installer or operator.

Owners and operators of the Brake Trolley Catch Accessory, zipSTOP Brake Trolley, Impact Trolley and associated equipment are responsible for the safety and supervision of any person using these devices or equipment and are required to assure that proper installation and operation procedures are followed at all times. Owners and operators are required by the manufacturer to read, understand, and follow all instructions in this Operator Manual regarding the correct installation and operation of the Brake Trolley Catch Accessory prior to use. Proper installation requires careful design and planning using Head Rush Technologies' and additional components. Owners and operators are encouraged to seek the advice of a proper engineering professional regarding the instructions in this manual.

These instructions must be made readily available to the operators and users at all times. Prior to installation and use, all owners, installers, and operators must have read and shown to have understood all instructions, labels, markings, and safety information pertaining to the installation, operation, care, and maintenance of the Brake Trolley Catch Accessory, Brake Trolley and Impact Trolley system, its component parts, and all associated hardware. Failure to do so may result in equipment damage, serious injury, and/or death.



WARNING

Failure by the operator to heed all instructions, warnings and cautions for installation and use of the Brake Trolley Catch Accessory and all associated equipment can result in serious injury and/or death.

Health and Safety

Owners and operators must abide by all standards, international, federal, state and provincial laws, and any specific health and safety regulations pertaining to the installation and use of this product.

Site Rescue Plan

Owners and operators must have devised an emergency rescue plan for any user in distress at all sites operating the Brake Trolley Catch Accessory, including rider recovery. Operators must inform users of the Brake Trolley Catch Accessory of the procedures for rescuing a user in distress prior to riding.

Symbols Used in this Manual

The following safety symbols are used throughout this manual to highlight potential dangers. One or more precautions may be associated with practices and procedures described within this manual. Failure to adhere to any precautions highlighted can result in death, serious injury, and equipment damage.

Ensure that the owner/operator reads and understands all safety procedures related to the working environment and the task they are undertaking.



DANGER

Indicates a hazardous situation exists that, if not avoided, will result in serious injury or death.



WARNING

Indicates a potentially hazardous situation that, if not avoided, could result in serious injury or death.



CAUTION

Indicates a potentially hazardous situation that, if not avoided, may result in injury or equipment damage.



NOTE

Indicates an action that must be taken to ensure personal safety and prevent damage to property or equipment.



CARE FOR THE ENVIRONMENT

Take care to minimize impact on the environment when carrying out this procedure.

WARRANTY CONDITIONS

The Brake Trolley Catch Accessory is warranted against factory defects in materials and workmanship, excluding Specific Field Replaceable Wear Parts, for a period of one year from date of purchase. This warranty applies only to the original purchaser, and is contingent upon the owner/operator using and maintaining the device in accordance with the instructions, including the requirement to maintain regular inspection as described in all applicable manuals.

THIS WARRANTY IS EXPRESSLY IN LIEU OF OTHER WARRANTIES, EXPRESS OR IMPLIED, AND ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FIT-NESS FOR A PARTICULAR PURPOSE IS HEREBY EXPRESSLY EXCLUDED.

The sole remedy for breach of this warranty, or for any claim in negligence or strict liability in tort, is the repair or replacement of any defective parts at the discretion of the manufacturer. Parts claimed to be defective shall be returned to Head Rush Technologies' factory, transportation prepaid, for inspection to determine to its satisfaction that said part/s are defective.

This warranty is null and void if parts other than genuine parts are used, or if any modifications or services have been performed on the device by anyone other than an authorized Head Rush Technologies servicing agent. This warranty does not cover any damages resulting from abuse to the device, damage in transit, or any other damage beyond the control of Head Rush Technologies. Head Rush Technologies makes no warranties in respect to trade accessories or component parts which are not made by Head Rush Technologies. Head Rush Technologies expressly excludes from this warranty the replacement of "Specific Field Replaceable Wear Parts," which include the Catch Wire, BumpStops, Hook, Impact Surface, and all additional equipment.

No person, agent, or distributor is authorized to give any warranty, other than the one herein expressed, on behalf of Head Rush Technologies, or to assume for it any liability pertaining to such products. Head Rush Technologies expressly disclaims any implied guarantee of merchantability, or claim as to whether the device is suited for a particular purpose. Purchaser agrees that Head Rush Technologies shall not be held liable to purchaser/operator for damages of any kind, including but not limited to, lost or projected profits, equipment down time, or any losses considered to be caused by non-operation or servicing/re-certification down time of the equipment.

Customer Responsibility

The following items are considered to be the responsibility of the customer and are therefore non-reimbursable under the terms of the warranty.

- Routine maintenance and inspection.
- Normal replacement of service and wear items.
- Replacements required because of abuse, misuse or improper operation of equipment by the installer or operator.

- Wearing parts such as Catch Wire, BumpStops, Hook and associated hardware.
- Normal deterioration due to use and exposure.

This warranty is subject to the following of the requirements of the Operator Manual supplied, manufacturer's instructions, and the advice given by Head Rush Technologies service technicians.

DESCRIPTION

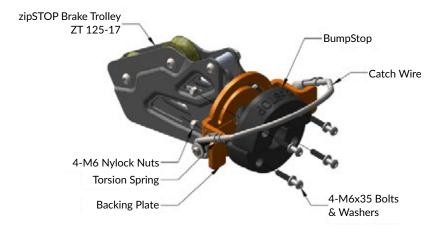
The Brake Trolley Catch Accessory is available with or as a modular, bolt on accessory for the zipSTOP Brake Trolley, Model ZT 125-17, and is designed to work in conjunction with the Impact Trolley, Model ITL-100 and ITTL-100, and Catch Hook Accessory, Model LU-100. The Brake Trolley Catch Accessory bolts to the front of the Brake Trolley, replacing the original Bump Stops, and incorporates a spring loaded Catch Wire that interfaces with the Catch Hook Accessory installed on the Impact Trolley. When the Impact Trolley contacts the Brake Trolley, the Catch Wire captures the Hook so that a rider arriving short of the platform can easily be recovered by reeling in the brake trolley. Use of this system eliminates the need for an operator to go out onto the line to retrieve stranded riders, thereby dramatically increasing throughput.

SPECIFICATIONS

MODEL	CT 125-17	CT 125-17	
CLASSIFICATION	Zip Line Brake Tr	Zip Line Brake Trolley Accessory	
DIMENSIONS	115 x 170 x 115	115 x 170 x 115 mm (4.5 x 6.7 x 4.5 in)	
MATERIALS	BACKING PLATE CATCH WIRE BUMP STOP HARDWARE	Aluminium Stainless Steel Polyurethane Stainless Steal	
MIN. RIDER WEIGHT	15 kg (33 lbs)		
MAX. RIDER WEIGHT	150 kg (330 lbs)		

COMPOSITION

The major components of the Brake Trolley Catch Accessory are outlined below.



The Brake Trolley Catch Accessory is design to be bolted to the front of the zip-STOP Brake Trolley, Model ZT 125-17, in place of the existing BumpStop sub-assembly, if purchased separately. With the Brake Trolley installed on the zip line, perform the following steps:

1. Remove the 4 – M6x35 bolts, washers, and Nylock nuts connecting the two BumpStop bumpers to the Backing Plates.





DO NOT REUSE NYLOCK NUTS

Nylock nuts are a single use item. Reuse of the item will compromise the nuts locking power and render it susceptible to backing out.

2. Gently separate the two backing plates and slip over the zip line. Do not detach the Catch Wire from the backing plates. Ensure the Catch Wire is above the zip line, as shown.





3. Reattach the BumpStops to the backing plates and zipSTOP Brake Trolley. Pass all four bolts through all components. Thread on the Nylock nuts, but do not fully tighten.



4. In order to function properly, the Catch wire must be horizonal when the Brake Trolley Assembly is fully reset. If using an offset redirection point, rotate the Backing Plate and Catch Wire Assembly such that the Wire is horizontal when reset. If using a directly overhead redirection point, the Catch wire will be perpendicular to the Brake Trolley side plates. Tighten the four Nylock nuts.



Overhead Redirection Point



Offset Redirection Point

5. Ensure the Catch Wire rotates freely. Do not rotate the Catch Wire past vertical to prevent damage to the torsion springs.



REFER TO ZIPSTOP OPERATIONS MANUAL

The Brake Trolley Catch Accessory is a supplementary product to the zipSTOP Zip Line Brake. This manual does not include all operating instructions for use with the zipSTOP. Refer the zipSTOP Operator Manual for complete operating instructions.



WARNING

FAILURE TO INSTALL AND INSPECT THE BRAKE TROLLEY CATCH ACCES-SORY ACCORDING TO THE PROVIDED SPECIFICATIONS MAY RESULT IN SERIOUS INJURY OR DEATH OF A PARTICIPANT. Any indication of the Brake Trolley Catch Accessory or associated hardware being out of specification mandates the immediate removal of the device from service.



DO NOT ROTATE THE CATCH WIRE PAST VERTICAL

Rotating the Catch Wire past vertical may damage the two torsion springs and effect the performance of the device.

Owners and operators of the Brake Trolley Catch Accessory are responsible for the safety and supervision of any person using this equipment and are required by the manufacturer to read, understand and follow all instructions in this Operator Manual regarding the correct installation and operation of the Brake Trolley Catch Accessory prior to use.

The Brake Trolley Catch Accessory is intended to be used with Head Rush Technologies' Impact Trolley with Hook Accessory only, Models ITL-100/ITTL-100 and LU-100. When used together, the Catch Wire captures the Hook after impact such that the two trolleys become attached so that a rider arriving short of the landing platform may easily be retrieved by pulling in a rope or equivalent attached to the Brake Trolley (not shown). In this way, a time consuming rider recovery in avoided.

The following images demonstrate proper operation and alignment of the Impact Trolley with the Catch Accessory.





Upon arrival at the platform, disconnect the rider from the Impact Trolley and remove the primary and backup carabiners. Push forward, rotate the Impact Trolley and Hook to the side, then pivot up to remove the Hook from the Catch Wire. Alternatively, pull slack into the redirection line and pull back the Catch Wire to free the Impact Trolley and Hook.



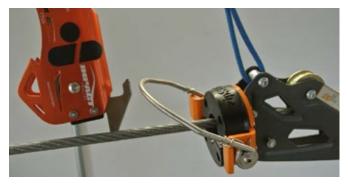
Push Forward



Rotate Trolley



Pivot Up



Remove



UNSAFE OPERATION

Remove the Brake Trolley Catch Accessory from service immediately if there is any concern over its correct operation or user safety.

Do not return the Brake Trolley Catch Accessory to service until it has been inspected and tested by an approved Head Rush Technologies Service Agent.



ENSURE RETREIVAL ROPE DOES NOT BECOME ENTANGLED

ALWAYS ENSURE THE RETRIEVAL ROPE USED IN CONJUNCTION WITH THIS DEVICE DOES NOT BECOME ENTANGLED WITH TROLLEY PATH, ANY FIXED OBJECT, INCLUDING THE ZIP LINE, OR THE RIDER. ENTAN-GLEMENT WITH A FIXED OBJECT MAY PREVENT THE BRAKE TROLLEY TRAVELING OVER THE ENTIRE BRAKING DISTANCE. ENTANGLEMENT WITH THE RIDER MAY CAUSE ROPE BURN, OTHER INJURIES OR ASPHYX-IATION IF WRAPPED AROUND THE NECK.

ALWAYS PERFORM UNMANNED TESTING PRIOR TO RIDER COMMIS-SIONING TO ENSURE SYSTEM IS OPERATING CORRECTLY. Refer to the zipSTOP Operations Manual for proper setup, use, inspection and maintenance of the zipSTOP, Brake Trolley, positioning of the redirection point, reduction line, and all associated equipment. Perform all maintenance and inspection criteria outlined in the zipSTOP Manual, including ensuring proper reset of the system prior to every use. In addition to the above, inspect for smooth rotation of the Catch Wire daily.



CHECK BRAKE TROLLEY HAS CORRECTLY RESET AFTER EVERY RUN

Failure to reset the Brake Trolley will result in an insufficient braking distance and may result in serious injury or death of rider. Ensure the Brake Trolley has fully reset to the start of the arrest zone, the zipSTOP webbing line is fully retracted, the EAD is in place, and the redirection and rider recovery lines are not tangled around any object and run free and clear of all obstacles.

SERVICE LIFE

The expected service life of the Brake Trolley Catch Accessory is one year. The Brake Trolley Catch Accessory has been designed for use outside and in harsh environments with a wide range of temperature and weather conditions. If a component is found to be damaged or worn during inspection, replacement parts are available from Head Rush Technologies and Authorized Service Centers. Replacement parts for the Brake Trolley Catch Accessory and other related products can be purchased at store.headrushtech.com or from an Authorized Head Rush Technologies Distributor.

Return the Brake Trolley Catch Accessory to the Manufacturer at the address shown below for any unscheduled service or repairs.

ADDRESS

Head Rush Technologies 1835 38th Street, Suite C Boulder, CO 80301 USA

CONTACT DETAILS

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