

User Instructions Manual

skyTECH™ Wheeled Catch Block

SKY-WCB-01

Skyline Ziplines Ltd.

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Revision History

Revision	Sections Affected	Changes	Date
0	-	Original Publication	11 September 2023



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Warnings and Important Notices

You will find on this page, and throughout this user instructions manual, many warnings and important notices that must be considered seriously when operating this system. It is imperative to understand the meaning of the warnings and potential hazards.



It is the responsibility of the operator to document and maintain a product use, inspection and maintenance logbook. Skyline Ziplines supplies inspection criteria and guidelines, forms and log sheets specific to all manufactured systems and equipment. It is the responsibility of the operator to follow all guidelines, intervals, and criteria set forth by these documents.



WARNING: This product is designed for zip line operations only. The operator(s) must read and understand the instructions in this manual before using this product. Manufacturer's instructions must be followed for the proper use and maintenance of the system and provided equipment. Alterations or misuse of this equipment, or failure to follow instructions, may result in serious injury or death.



This document does not replace a complete training necessary for the use of this product. Knowledge by the user of all appropriate techniques and risks is required.



This manual contains information and instructions specific to the skyTECH™ Wheeled Catch Block and associated equipment manufactured by Skyline Ziplines Ltd. Make sure this User Instructions Manual is the latest version available. Contact Skyline Ziplines to obtain the latest document revisions, important Updates and other notices.



Products and systems manufactured by Skyline Ziplines are intended for use by professionals trained and experienced in the use, inspection, and maintenance of these products, or for use by persons under the direct visual surveillance of competent and responsible persons.



Before using this equipment, record the product identification information from the ID label in the inspection and maintenance log at the end of this document. Make sure this User Instructions Manual is readily available with the product. Contact Skyline Ziplines Ltd to obtain additional copies of this manual.



1.0 Description

1.1 Applications

SkyTECH™ Wheeled Catch Blocks are to be used as braking safety equipment for ziplines only.

1.2 Standards

Refer to local, provincial/state and federal laws and regulations pertaining to the installation and use of this type of equipment.

1.3 Description of skyTECH™ Wheeled Catch Block

1.3.1 skyTECH™ Wheeled Catch Block

Product Codes:

1/2" Cable: SKY-WCB-01-A1
5/8" Cable: SKY-WCB-01-A2
3/4" Cable: SKY-WCB-01-A3
7/8" Cable: SKY-WCB-01-A4

Specifications:

- Designed for use with skyTECH Rocket and/or 2:1 Spring Brake
- Compatible with Spring and zipSTOP Brake Systems
- CNC Machined Aluminum Components and Nylon Body
- Stainless Steel Hardware and Axles
- Replaceable Rubber Bumpers
- Removable and Replaceable UHMW Catch Teeth
- Special Nylon Blend Wheels Eliminate Metal-to-Metal Contact



2.0 Limitations

Consider the following application limitations before using this equipment:

2.1 Capacity and Working Load Limit

- Not to be used in operations exceeding 60 mph braking speeds
- Not to be used in operations exceeding 300 lbs. patron weight

2.2 Environmental Hazards

Use of this equipment in areas with environmental hazards may require additional precautions to prevent injury to the user or damage to the equipment. Hazards may include, but are not limited to: heat, chemicals, corrosive environments, electrical fields and wires, gases and sharp edges.

2.3 Sharp Edges

Avoid using where the zip line equipment or other system components will be in contact with or abrade against unprotected sharp edges.

2.4 Training

The skyTECH™ Wheeled Catch Block must only be installed and used by persons trained in their correct application and use (See Section 5).



3.0 System Requirements

3.1 Compatibility of Components

Skyline equipment is designed for use with the Skyline-approved components and subsystems only. Substitution or replacements made with non-approved components or subsystems may jeopardize compatibility of equipment and may affect the safety and reliability of the complete system.

Approved Brake Systems

- skyTECH 2:1 Spring Brake System
- Head Rush Technologies zipSTOP Brake System
- Contact Skyline Ziplines for any questions regarding brake system compatibility.

Approved Trolleys for Capture

- skyTECH Rocket Trolley
- Contact Skyline Ziplines for any questions regarding trolley compatibility

3.2 Compatibility of Connectors

Connectors are compatible with connecting elements when they have been designed to work together in such a way that their size and shape do not cause their gate mechanism to inadvertently open regardless of how they become oriented.

Connectors used to attach to the Skyline Catch Block should meet these specifications:

- Minimum break strength of 15 kN or 3,300 lbs
- Shape must be designed to attach to top or bottom Goose Neck with minimal hole slop (<1/8")
- Must have a mechanism for locking, i.e. cotter pin, spring pin, lock wire, etc.
- Must have WLL or MBS label on connector
- Recommended Connector(s): Contact Skyline Ziplines for Connector Recommendation

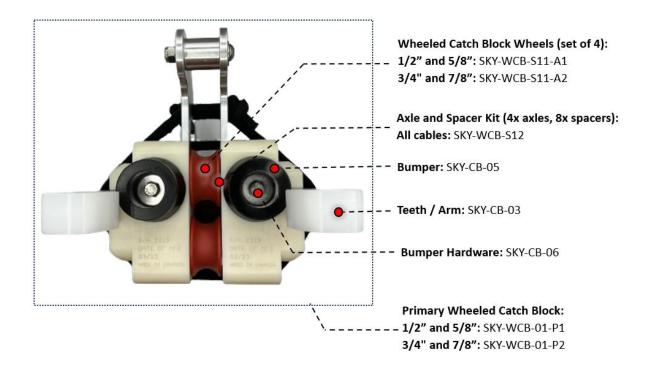
3.3 Making Connections

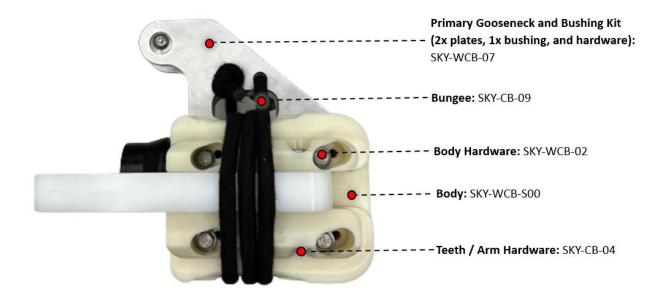
Use only connectors that are suitable to each application. Ensure all connectors are compatible in size, shape, and strength. Do not use equipment that is not compatible. Ensure all connectors are fully closed and locked.



4.0 Nomenclature and Assembly

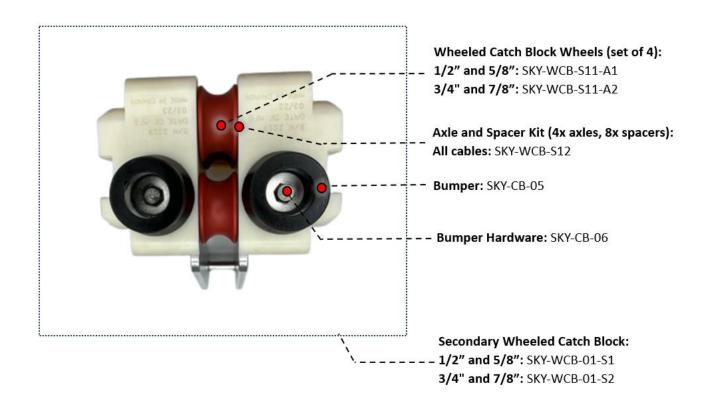
4.1 Description of Parts – Primary Wheeled Catch Block

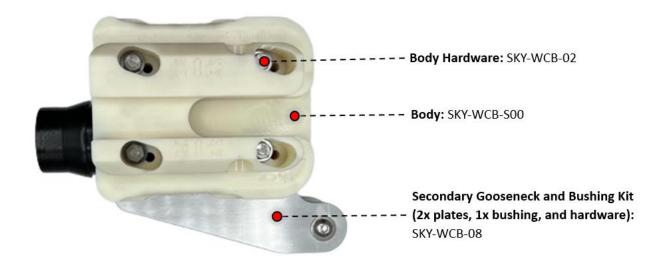






4.2 Description of Parts – Secondary Wheeled Catch Block







4.3 Procedure for Assembling Wheeled Catch Block

Tools Required: (2) 7/16" Sockets, (2) Ratchet Drivers, (1) 3/16" Allen, (1) 1/2" Socket

- 4.3.1 Install bumpers (SKY-CB-05) with 1 bolt (SKY-CB-06, 1-1/4") and 1 washer (1/4") per bumper on the front of the block. Torque to 6 ft-lbs.
- 4.3.2 <u>Primary catch block only</u>: Install right and left teeth (SKY-CB-03) with 1 bolt (SKY-CB-04, 2-3/4"), 1 washer (1/4") on top, 1 washer (1/4") on bottom, and 1 nut (1/4") on bottom. Torque to 6 ft-lbs.
- 4.3.3 Place 2 axles into correct holes on lower half inside of block body countersunk holes. Cable diameter and corresponding axle location is engraved into outside of block body.
- 4.3.4 Slide one wheel spacer onto each axle.
- 4.3.5 Place one wheel (SKY-WCB-S11, to match cable diameter size) onto each of the two axles, ensuring a spacer is present behind.
- 4.3.6 Add an additional wheel spacer to each axle. You should have one on either side of each wheel.
- 4.3.7 Place the other half of the catch block body so that the axles sit in the correct holes according to your cable size.
- 4.3.8 Add two 5" bolts through the body and wheel axles. Ensure each side has a washer and then tighten the nut to 6 ft-lbs using two 7/16" sockets.
- 4.3.9 Place one gooseneck flat on a table (this part will vary depending on if this block is used as a primary block or a secondary 2:1 redirect block).
- 4.3.10 Place two axles in the correct holes on the gooseneck that corresponds to your cable diameter.
- 4.3.11 Place a wheel spacer over each of the two axles, followed by one wheel per axle, and a second spacer after the wheel.
- 4.3.12 Add the second gooseneck, effectively squeezing the wheels and spacers in between the two goosenecks. For the primary block, the goosenecks will point uphill, while the goosenecks for a secondary redirect block will face downhill.
- 4.3.13 Place bushing between the two goosenecks and fasten in place with the 5/16" x 2" bolt using the 3/16" allen and 1/2" socket (the diameter of the bushing will vary depending on the gooseneck used; larger for the primary and smaller for the secondary). Ensure you have a washer on both sides and torque the nut to 11 ft-lbs.
- 4.3.14 You should now have two parts of the catch block that can easily slide together over the cable, encapsulating it between the 4 wheels.
- 4.3.15 Once in place on the cable, insert the remaining two 5" bolts through the body, goosenecks and wheels. Ensure there is a washer on both ends of the bolt. Torque to 6 ft-lbs.
- 4.3.16 Ensure the wheeled catch block moves freely along the cable.
- 4.3.17 <u>Primary catch block only</u>: Insert one end of the bungee (SKY-CB-09) through one hole on upper aluminum spacer and tie a single overhand knot
- 4.3.18 <u>Primary catch block only</u>: Wrap bungee around Catch Block body three times making sure to pass over both teeth and through the large slot in the goosenecks.



- 4.3.19 <u>Primary catch block only</u>: Insert end of bungee through the second hole on the gooseneck and tie another single overhand knot.
- 4.3.20 Primary catch block only: Check that the teeth open and close
- 4.3.21 Attach connector (see Section 3.2 For Connector Compatibility) and brake system

4.4 Procedure for Attaching Wheeled Catch Block to zipSTOP

Items Required: Catch Block, Brake System, Brake Rope, Thimble

- 4.4.1 Assemble Catch Block in accordance with section 4.3 using primary catch block goosenecks with the teeth and bungee installed.
- 4.4.2 Orient Catch Block with goosenecks on top, pointing up the zipline.
- 4.4.3 Attach zipSTOP brake rope to gooseneck bushing with follow-through figure-8 knot.
- 4.4.4 Allow system to reset to rest, check that Wheeled Catch Block is oriented correctly and the zipSTOP webbing is not pulled out more than 1m (3.3ft).

4.5 Procedure for Attaching Wheeled Catch Block as Spring Bank 2:1 Redirect

Items Required: Secondary Wheeled Catch Block, Brake System, Brake Rope, Redirect Pulley, ½" Quicklink

- 4.5.1 Assemble Catch Block in front of spring bank in accordance with section 4.3 using redirect catch block goosenecks with the teeth and bungee removed.
- 4.5.2 Orient Catch Block with goosenecks on the bottom pointing towards springs.
- 4.5.3 Connect ½" stainless steel quicklink to the gooseneck bushing.
- 4.5.4 Run the brake rope through the redirect pulley and connect it to the quicklink located on the catch block. Ensure quicklink is closed and tightened.
- 4.5.5 Allow system to reset to rest, check that Wheeled Catch Block is oriented correctly and the brake rope does not have excessive sag or any twists.



5.0 Standard Operating Procedures



The following operating procedures outline only the necessary steps required to complete each process. The procedures do not consider additional safety requirements and additional safety considerations that should be considered for each site. Please consult a qualified person and/or your site-specific manual to ensure all necessary steps are taken to guarantee safety in your operations.

5.1 Standard Procedures for Operations – Removal of Trolley from Wheeled Catch Block

Disengage Teeth Method

- 5.1.1 Pull outwards on teeth of catch block
- 5.1.2 While holding the teeth open, slide trolley out from teeth
- 5.1.3 Remove trolley from cable
- 5.1.4 Ensure catch block resets to correct position

Trolley Rotation Method

- 5.1.5 Hold trolley body in one hand and the catch block in the other
- 5.1.6 Rotate trolley body 90 degrees
- 5.1.7 Slide trolley out from teeth
- 5.1.8 Remove trolley from cable
- 5.1.9 Ensure catch block returns to correct reset position with gooseneck facing up.



6.0 Training

It is the responsibility of the buyer/user of this equipment to make sure that they understand these instructions, and are sufficiently trained in the correct use and care of this equipment. The user must be aware of the operating characteristics, application limits, and the consequences of improper use. Training must be done prior to use and user must be evaluated for his/her competence to use this equipment. Gaining an adequate education in proper techniques and methods of safety is your own responsibility. Training should be done under the supervision of competent persons.

It is recommended that Skyline Ziplines perform a manufacturer's training to cover the material in this document, use with other equipment, and site specific training.

*Competent persons: (<u>OSHA</u>) One who is capable of identifying existing and predictable hazards in the surroundings or working conditions that are hazardous our dangerous to employees, and who has the authorization to take prompt corrective measures to eliminate them.



7.0 Inspection

7.1 Frequency

- 7.1.1 The skyTECH™ Wheeled Catch Block must be formally inspected daily prior to initial use and recorded in the inspection log.
- 7.1.2 The Wheeled Catch Block must be informally inspected prior to each use for normal operation, orientation, and overall condition.
- 7.1.3 The Skyline Catch Block must be inspected by the manufacturer or manufacturer-approved competent person(s) at least once a year (or more frequently if deemed necessary by the frequency and/or conditions of use). The results of this formal inspection must be recorded in the inspection and maintenance log at the end of this manual.

7.2 Daily Pre-Use Inspection Process

The daily pre-use inspection process is included in Appendix A. The forms available in this manual may be used for operations and as a template for site specific forms. It is critical that every item presented on the provided form is inspected and documented.

7.3 Documentation Process

Located in Appendix A is a sample Inspection form that Skyline Ziplines recommends using as a template. Located in Appendix B is a sample Maintenance form that Skyline Ziplines recommends using as a template. Located in Appendix C is a flowchart explaining the appropriate process for inspections, maintenance, and documentation. It is important to reference this flowchart for proper Quality Assurance documentation.

7.4 Lock Out, Tag Out

To ensure the highest standard of safety, it is required that all sites produce a Lock Out, Tag Out system. The system/process is designed to identify and prevent the use of all equipment identified through the inspection process as REJECTED (not suitable for use). Below is an example provided by Skyline Ziplines and is also included in the flowchart in Appendix C:

- 7.4.1 Item identified as rejected or failed during inspection by staff member.
- 7.4.2 Failure/rejection is noted on inspection log.
- 7.4.3 Item is marked with a tag with the following information:
 - 7.4.3.1 Name of staff member
 - 7.4.3.2 Date of inspection
 - 7.4.3.3 Reason for rejection
- 7.4.4 Item is placed in designated Lock Out, Tag Out area. This area must be removed from the operating area to avoid any chance of use.



8.0 Maintenance and Storage

8.1 Storage

Proper storage of equipment leads to longer equipment life and assurance of the integrity of the product. Follow the below guidelines for long term:

- Store the product in a cool, dry, and clean environment out of direct sunlight.
- Avoid areas where vapors may exist.
- Thoroughly inspect all equipment after extended storage and before re-installation.

8.2 Replacement Parts and Repairs

All replacement parts must be purchased through Skyline Ziplines Ltd. All equipment repairs must be performed by the following: Skyline Ziplines Ltd, an authorized contractor/vendor of Skyline Ziplines Ltd with approval or trained and authorized onsite personnel.

8.3 Wheeled Catch Block Maintenance – Rotate or Change Out Wheels (SKY-WCB-11)

Tools Required: (2) 7/16" Sockets, (2) Socket Wrenches, (1) 3/16" Allen, (1) 1/2" Socket

- 8.3.1 Remove bungee and brake rope connection.
- 8.3.2 Remove two bolts holding goosenecks in place allowing you to separate and remove the catch block from the cable.
- 8.3.3 Remove remaining two bolts holding the body together.
- 8.3.4 Remove the 5/16" bolt holding the goosenecks together and pull the goosenecks apart.
- 8.3.5 Remove the spacers from one side of the wheels along with the wheels themselves.
- 8.3.6 Inspect wheels and replace as required by the inspection criteria found in Appendix A.
- 8.3.7 Ensure each wheel has a spacer on both sides of the bearing when reassembling.
- 8.3.8 Assemble entire unit by performing assembly instructions in section 4.3.
- 8.3.9 Inspect unit and record maintenance in log (Appendix B)

8.4 Catch Block Maintenance – Replacing Goosenecks (SKY-WCB-07 and SKY-WCB-08)

Tools Required: (2) 7/16" Sockets, (2) Socket Wrenches, (1) 3/16" Allen, (1) 1/2" Socket

- 8.4.1 For primary block: Remove bungee and brake rope connection.
- 8.4.2 Remove the two bolts (5") holding two wheels and goosenecks to Catch Block
- 8.4.3 Remove 5/16" bolt holding the goosenecks together.
- 8.4.4 Install new goosenecks.
 - 8.4.4.1 Primary block goosenecks (SKY-WCB-07) will have connection point facing up the zipline.
 - 8.4.4.2 Secondary block goosenecks (SKY-WCB-08) will have connection point facing the landing tower.
- 8.4.5 Re-assemble the gooseneck assembly with both plates, the wheels, axles, and spacers, ensuring a spacer is present on both sides of each wheel and axles are in correct holes for respective cable size.



- 8.4.6 Re-install the bushing and 5/16" bolt. Torque to 11 ft-lbs.
- 8.4.7 Reinstall the two halves of the catch block over the cable, encapsulating it between the four wheels.
- 8.4.8 Insert the two 5" bolts with a washer on each side and torque to 6 ft-lbs.
- 8.4.9 <u>For primary block</u>: Insert one end bungee (SKY-CB-09) through one hole of Gooseneck (SKY-WCB-07) and tie a single overhand knot.
- 8.4.10 <u>For primary block</u>: Wrap bungee around Catch Block body three times making sure to pass over both teeth and through the large slot in the goosenecks.
- 8.4.11 For primary block: Insert end of bungee through the second hole on gooseneck and tie a single overhand knot.
- 8.4.12 For primary block: Check that Catch Block teeth open and close firmly and freely.
- 8.4.13 Attach connector (see Section 3.2 For Connector Compatibility) and brake system.
- 8.4.14 Inspect unit and record maintenance in log (Appendix B)

8.5 Primary Block ONLY – Wheeled Catch Block Maintenance – Replacing Bungee (SKY-CB-09)

Tools Required: None

- 8.5.1 Remove old bungee completely and inspect Wheeled Catch Block unit.
- 8.5.2 Insert one end of replacement bungee (SKY-CB-09) through one hole of gooseneck (SKY-WCB-07) and tie a single overhand knot.
- 8.5.3 Wrap bungee around catch block body three times making sure to pass over both teeth and through the large slot of the goosenecks.
- 8.5.4 Insert end of bungee through the second hole of the gooseneck and tie a single overhand knot.
- 8.5.5 Check that catch block teeth open and close freely and firmly.
- 8.5.6 Inspect unit and record maintenance in log (Appendix B)

8.6 Catch Block Maintenance – Replacing Bumpers (SKY-CB-05)

Tools Required: 7/16" Socket, Socket Wrench

- 8.6.1 Remove the bolt and washer attaching bumper to the catch block body using a 7/16" socket.
- 8.6.2 Repeat for opposite bumper, if required.
- 8.6.3 Inspect Catch block body, bolt, and washer for damage.
- 8.6.4 Install new bumper(s) with 1 bolt (1-1/4") and 1 washer (1/4") on front of catch block body.
- 8.6.5 Inspect unit and record maintenance in log (Appendix B)



9.0 Lifetime

The lifetime of a skyTECH™ Wheeled Catch Block is determined through visual inspection method described in Section 7.0 and Appendix A. The actual lifetime depends on the intensity and the frequency of use as well as the environment. An exceptional circumstance might limit the product lifetime to a single use. A product that was not inspected at least once per year as specified in section 7.1.4 should be removed from service and replaced. The expected lifetime of this product is 5 years (this does not apply to wear parts such as bumpers, wheels, and bungee).

10.0 Incident and Failure Reporting

In the unfortunate situation that a skyTECH™ Wheeled Catch Block is involved in an incident or a failure, please notify Skyline Ziplines immediately so that prompt corrective measures can be taken by Skyline Ziplines. Product Safety Alerts are available at request and are sent out to all previous customers via email.

Complete information concerning the incident (date, location, details as to event and consequence, etc.) must be communicated to admin@skylineziplines.ca and/or called in to the office at 604-905-4149.

Skyline Ziplines will investigate the incident and if a product recall alert is required, shall notify all known customers and distributors who have purchased the product.



11.0 Warranty

Subject to the following limitations, terms, and conditions, Skyline Ziplines LTD warrants to the original purchaser of each Product that such Products when purchased new, are free of defects in materials and workmanship. This limited warranty may be exercised for a period of up to one year from the date of receipt. This limited warranty does not apply to normal wear and tear, nor to claimed defects, malfunctions or failures that result from abuse, neglect, improper assembly, improper maintenance, alteration, collision, crash, or misuse.

EXCEPT AS EXPRESSLY SET FORTH ABOVE, SKYLINE ZIPLINES LTD DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PURPOSE. SKYLINE ZIPLINES LTD'S RESPONSIBILITY FOR WARRANTY CLAIMS IS LIMITED TO, AT SKYLINE ZIPLINES LTD'S SOLE DISCRETION, REIMBURSEMENT OF THE ORIGINAL PURCHASE PRICE, REPAIR OF THE PRODUCT, OR REPLACEMENT OF THE PRODUCT WITH THE SAME OR SIMILAR PRODUCT. NOTWITHSTANDING anything in THESE TERMS to the contrary, SKYLINE ZIPLINES LTD SHALL NOT be responsible or held liable for punitive, indirect, incidental or consequential damages, including without limitation, liability for loss of use, loss of profits, loss of Product or business interruption however the same may be caused, including fault or negligence of SKYLINE ZIPLINES LTD.

To exercise rights under this limited warranty, Customer must return the affected Product to Skyline Ziplines LTD (unless otherwise instructed by Skyline Ziplines LTD) to:

SKYLINE ZIPLINES LTD 6-1006 LYNHAM ROAD WHISTLER, BRITISH COLUMBIA, CANADA V8E 0S3

Skyline Ziplines LTD will use reasonable commercial efforts to return all product in a timely manner to the designated location and will be responsible for all shipping costs. Skyline Ziplines LTD reserves the right to modify this limited warranty at any time, in its sole discretion.



Appendix A – Inspection Form

*Sample files available upon request

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INSPECTION FORM I-13

skyTECH Wheeled Catch Block



Inspection Information

Frequency: Daily Pre-Use Models: Wheeled Catch Block (SKY-WCB-01)

Performed By: Trained Staff Member Manufacturer: Skyline Ziplines LTD.

Inspect all matching equipment in accordance with the inspect criteria listed below. At the bottom, record the equipment's disposition by marking the appropriate ID number. If the answer is YES to one or more of the following questions, the unit is deemed UNFIT for service.

1. Known Equipment History

- Has the unit been used by a person weighing more than 310 lbs?
- -Has the unit received an impact exceeding 60mph without a subsequent inspection?
- Has the unit been exposed to detrimental chemical products or an intensive source of heat?
- Has the unit not been formally inspected within the last year by a competent person?

2. Preliminary Observations

- Are all engravings, serial numbers and dates of manufacture present and legible?
- Has the product undergone modifications or alterations not performed or authorized by the manufacturer?

3. Body Inspection

- Are there any visual indications of damage to the body or aluminum goosenecks such as chips, bends, cracks, or excessive wear?
- -Are there any issues with the catch block running smoothly over the cable?
- -Are there signs of the wheels rubbing on the inside of the body?

4. Wear Items Inspection

- -Are the wheels not spinning smoothly, showing signs of flat spots or do the grooves measure in at less than 35mm in diameter?
- -Are the bumpers cracking or deformed?
- -Is the bungee showing signs of broken strands, necking, or other degradation?
- -Are the teeth showing signs of deep cracks, worn contact areas, or other damage?

5. Hardware Inspection

- Are any fasteners loose or missing bolts, nuts, or washers?
- -Are any wheel spacers missing? There should be a spacer on both sides of each wheel.

Disposition - Circle all line numbers correlating with all units that have PASSED the inspection and are FIT for service														
01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
Failed Eq	ıuipment -	- List all ID) numbers	for units	deemed (JNFIT for	service. C	onsult the	e manual f	for prope	r Lock Out	t, Tag Out	Protocol	
Notes/Co	omments													

Inspected By:	
Date:	



Appendix B – Maintenance Log

*Sample files available upon request

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MAINTENANCE FORM M-00

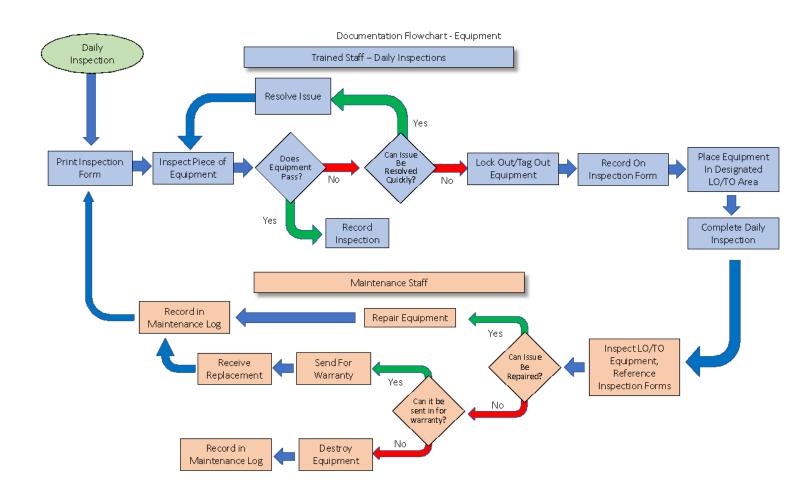


1/1

Unit ID:	Performed By:	Date:
Work Performed:		
		Verdict (Circle One): FIT UNFIT RETIRED
Unit ID:	Performed By:	Date:
Work Performed:		
		Verdict (Circle One): FIT UNFIT RETIRED
Unit ID:	Performed By:	Date:
Work Performed:		
		Verdict (Circle One): FIT UNFIT RETIRED
Unit ID:	Performed By:	Date:
Work Performed:		Verdict (Circle One): FIT UNFIT RETIRED
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Unit ID: Work Performed:	Performed By:	Date:
Work Periorified.		Verdict (Circle One): FIT UNFIT RETIRED
Unit ID:	Performed By:	Date:
Work Performed:	renormed by.	Date.
		Verdict (Circle One): FIT UNFIT RETIRED



Appendix C - Documentation Process Flowchart





Skyline Ziplines Ltd. Headquarters 6-1006 Lynham Road Whistler, British Columbia Canada V8E 0S3

Canada Phone: (604) 905 - 4149

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