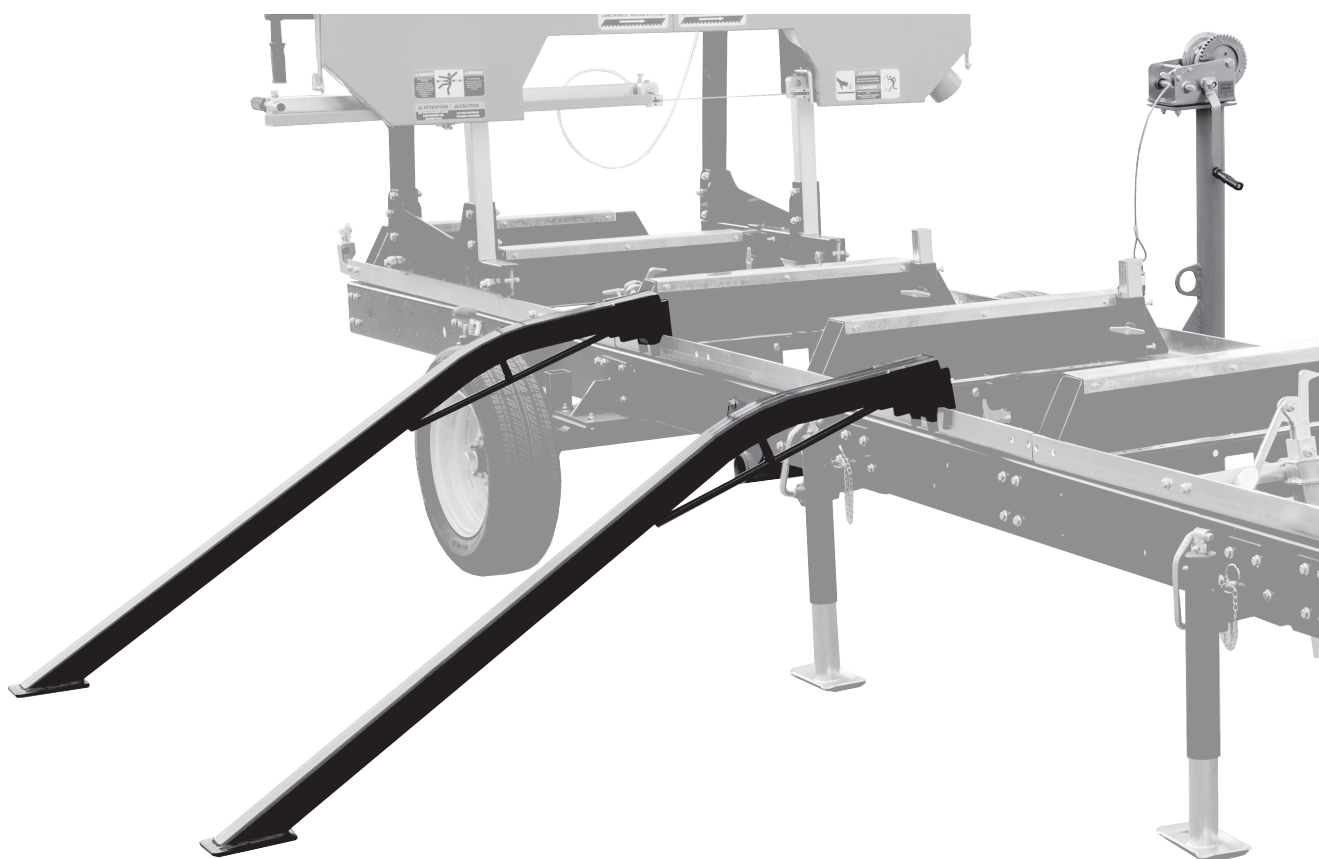




Item 86007

26in. Sawmill Log Winch Kit

Owner's Manual



⚠ WARNING

**READ AND UNDERSTAND THIS INSTRUCTION MANUAL
PRIOR TO USING THIS PRODUCT. FAILURE TO DO SO MAY
RESULT IN SERIOUS INJURY OR DEATH.**

Keep this instruction manual for future reference.

This instruction manual is intended for your benefit. Please read and follow the safety, installation, maintenance and troubleshooting steps described within to ensure your safety and satisfaction. The contents of this instruction manual are based upon the latest product information available at the time of publication. The manufacturer reserves the right to make product changes at any time without notice.

The safety instructions provided in this manual are not intended to cover all possible conditions and practices that may occur when operating, maintaining and cleaning power equipment.

Always use common sense and pay particular attention to all the DANGER, WARNING, CAUTION and NOTICE statements in this manual.

WARNING SYMBOLS AND DEFINITIONS

	This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.
 DANGER	Indicates a hazardous situation which, if not avoided, will result in death or serious injury.
 WARNING	Indicates a hazardous situation which, if not avoided, could result in death or serious injury.
 CAUTION	Indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.
NOTICE	Addresses practices not related to personal injury.
CAUTION	

Maintain labels. Labels on this product, if applicable, carry important information. If unreadable or missing, contact Star-Asia USA, LLC for free replacement labels.

The label on your tool may include the following symbols. The symbols and their definition are as follows:

Symbol	Property or Statement	Symbol	Property or Statement
	Safety Alert Symbol		Use approved hearing protection such as ear plugs or ear muffs.
	Read and understand this instruction manual prior to using this product.		Use NIOSH approved dust mask or respirator.
	Wear ANSI approved (or applicable national standard) goggles or properly fitted protective glasses with top and side protection.		Wear anti-vibration gloves when operating.

INTENDED USE

Designed to be installed onto and used in conjunction with the BOZEMAN 26 in. Sawmill (Item 22648, not included) and Sawmill Trailer (Item 86001, not included), this Sawmill Log Winch Kit is intended to be used to assist with loading logs onto the log supports for preparation of cutting. The maximum direct pull force provided by the winch is 2000 lbs and the kit includes two ramps that are easily placed onto the sawmill track for loading the log and removal after loading.

UNPACKING & INSPECTION

When unpacking, please inspect the product carefully to ensure the product is intact and undamaged. If any parts are missing or broken, please call 1-800-386-0191 as soon as possible.

 **WARNING** **Do not use this product if damaged during shipment, handling, or after misuse.**
Do not use the product until the parts have been replaced or the fault rectified. Failure to do so may result in serious personal injury or property damage.

 **WARNING** **The trailer and its parts are heavy. It is recommended a minimum of two people are needed for unpacking, lifting, moving, and assembling.**
Follow proper lifting techniques at all times as recommended by the Occupational Safety and Health Administration.

Remove the parts and accessories from the packaging and inspect for damage. Make sure that all items in the contents are included.

Package contents : **See Parts List**

GENERAL SAFETY RULES

 **WARNING** **READ ALL SAFETY WARNINGS AND ALL INSTRUCTIONS.** Failure to follow the warnings and instructions may result in electric shock, serious injury and/or DEATH.
Save this instruction manual for future reference.

WORK AREA SAFETY

- Assemble, adjust, and operate in a safe work environment.
Keep your work area clean, well-lit and free of distractions.
Place lights so you are not working in a shadow.
- Keep anyone not wearing appropriate safety equipment away from the work area.

- If working alone, always arrange to have someone check on you at pre-arranged, regular intervals.
- Do not allow children or pets in the work area, and do not

allow children or pets on or near the equipment.

- Do not use in the presence of flammable gases, dust, or liquids.

PERSONAL SAFETY

- Wear Personal Protective Equipment (PPE) approved by the American National Standards Institute (ANSI) or the Canadian Standards Association (CSA).
- Always wear impact safety goggles or eye wear that provide front and side protection for the eyes. Eye protection equipment should comply with ANSI Z87.1 or CSA Z94.3-07 standards based on the type of work performed.
- Wear hearing protection with an appropriate Noise Reduction Rating to withstand increased decibel levels when working near engines.
- Control the tool, personal movement and the work environment to avoid personal injury or damage to the equipment.
- Do not operate, adjust, or perform maintenance on any part of this winch kit, sawmill, or trailer when tired or under the influence of drugs, alcohol, or medications.
- Wear protective clothing designed for the work environment and equipment.
- Avoid wearing clothes or jewelry that can become entangled when operating or working on the trailer. Keep long hair covered and bound.
- Wear gloves that provide protection based on the work materials.

Note: Do not wear gloves when operating a tool that can snag the material and pull the hand into the tool.

- Do not overreach when using. Wear non-skid footwear to maintain proper footing and balance and to enable better control in unexpected situations.
- Keep fingers away from the pinch points around the winch, ramps, trailer, and sawmill.
- The operator's ability to safely operate this off-road equipment is largely dependent upon the operator's ability to exercise proper judgment. The operator must be of sufficient age, understanding, mental capacity, and physical capability to safely operate this equipment. ALWAYS FOLLOW THE RECOMMENDED AGE RESTRICTION OF 16 YEARS FOR OPERATORS.

SPECIFIC SAFETY PRECAUTIONS



WARNING

DO NOT let comfort or familiarity with the product (gained from repeated use) replace strict adherence to the tool safety rules. If you use this tool unsafely or incorrectly, you may suffer serious personal injury.

- Use the correct tool for the job. This equipment was designed for a specific function. Do not modify or alter this equipment or use it for an unintended purpose.
- Do not use the winch or ramps if any parts are damaged or misplaced. Repair or replace the parts, as necessary.
- Do not use the winch if it appears or sounds to be operating abnormally. Seek a qualified technician to repair and verify the trailer and its components are operating correctly before using.
- Assembly, maintenance, and/or repair of the winch, trailer, sawmill and their components should only be performed by persons of sufficient mechanical skill, experience, and judgment (such as outdoor equipment dealers, motorcycle dealer/shops, or power equipment

repair shops) so that no unsafe condition or modification is made.

- Ensure the trailer is stable, landing jacks / stabilizers are all grounded, and the trailer will not have unintentional movement while using the winch and ramps.
- Loose clothing, long hair, or articles worn by an operator must be fully contained or covered to prevent being caught in any rotating parts
- Operators under 18 years of age must always be appropriately supervised by an adult at all times while operating this equipment.
- Operation of this equipment requires skills acquired through practice over a period of time. Take time to learn the basic techniques well before operation of the trailer and any of its components.
- Operate only on safe and familiar terrain. Avoid steep inclines.
- Inspect the winch, winch cable, hook, and all blocking/pulleys for damage or corrosion prior to each use. Replace or repair before use, as necessary.

ASSEMBLY & INSTALLATION



WARNING

This is a complex and dangerous machine. The trailer and its components can be dangerous when assembled incorrectly. If you do not feel completely comfortable assembling it, then seek the services of a qualified technician to assemble it.

The trailer will need to be assembled by the user or by a competent technician. Follow these steps to ensure proper assembly.

Tools needed for assembly:

- Metric open-end/box end wrench set
- Torque wrench up to 350 ft-lbs
- Socket driver and metric sockets

ITEMS IN PARENTHESES () REFER TO THE ITEM NUMBERS IN THE PARTS LIST.

Step 1: Open the shipping crate. Open the shipping crate and remove any plastic covering.

Step 2: Unpack the accessible items. With the top removed carefully remove each piece and set them aside. Remove any plastic covering. Place similar items together to easily find them.

Step 3: Check that the parts are correct. Check that parts match the items in the parts list and that the quantity is correct. If any parts are missing or broken, contact Star-Asia at 1-800-386-0191 as soon as possible.

Step 4: Lay out the parts. In a well-lit area with enough room to assemble the winch to the trailer, lay out the parts so they can be easily located and accessed.

Step 5: Install the Horizontal Mounting Tube to the Trailer. Install the Horizontal Mounting Tube (2) as shown in Fig. 1, to the trailer using eight M10 x 30 Flange Head Bolts (1) and M10 Self-Locking Flange Head Nuts (5). Torque these fasteners to between 32 and 37 ft. lbs.

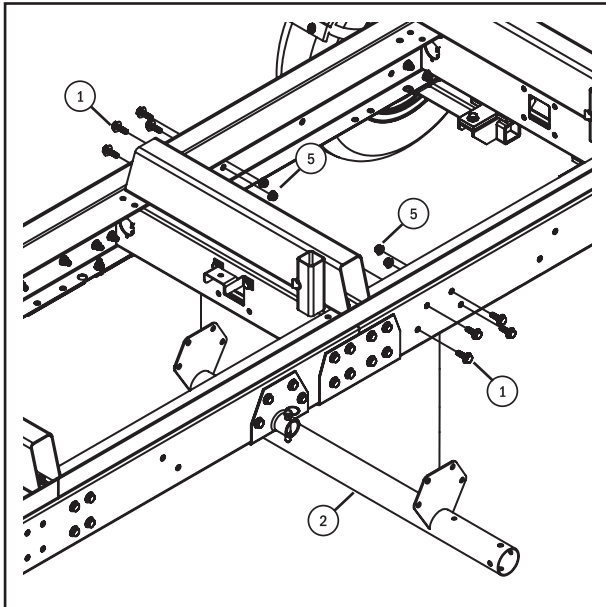


Fig. 1

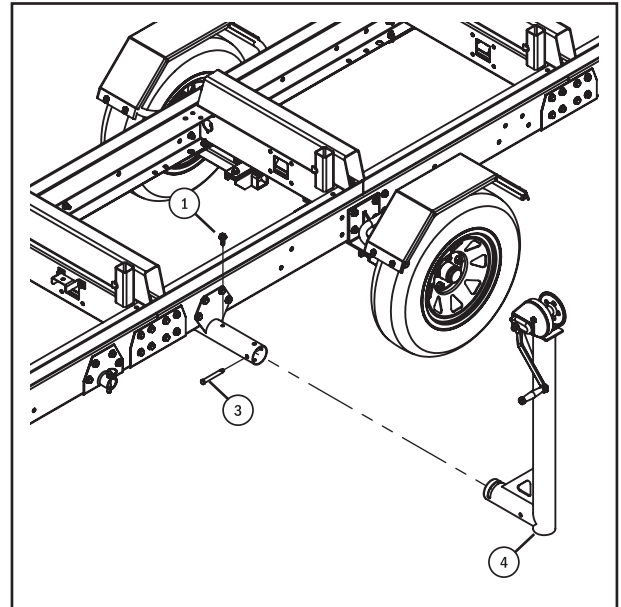


Fig. 2

Step 6: Install the Vertical Mounting Tube to the Horizontal Mounting Tube. Install the Vertical Mounting Tube (4), as shown in Fig. 2 using one M10 x 30 Flange Head Bolt (1) and the 12 x 100 Clevis Pin (3).

Step 7: Install the Bottom Clamp Plates to the Trailer. Install the two Bottom Clamp Plates (10) to the trailer cross beams, as shown in Fig. 3 using four M10 x 30 Flange Head Bolts (1) and M10 Self-Locking Flange Head Nuts (5). Torque these fasteners to between 32 and 37 ft. lbs.

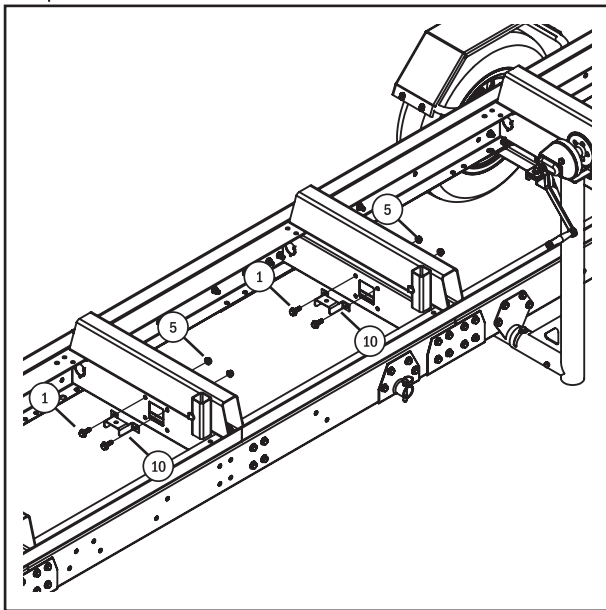


Fig. 3

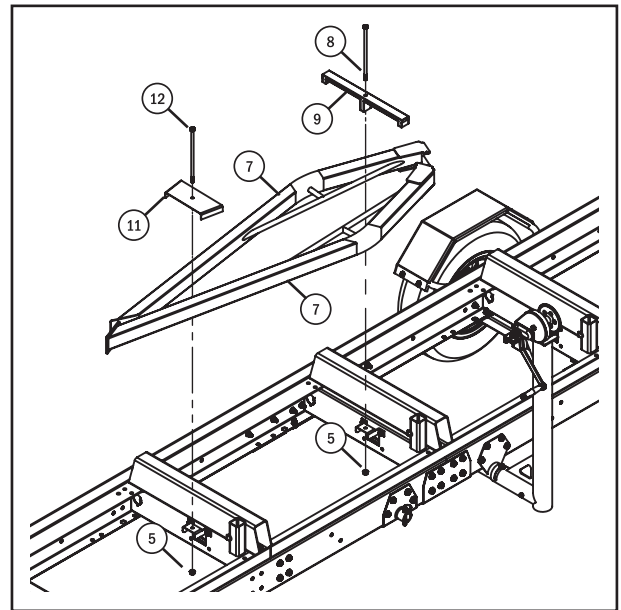


Fig. 4

Step 8: Install the Ramps into the storage/transport position. Lay the Ramps (7) on top of the log supports as shown in Fig. 4 and position the Angled Top Bracket and Long Top Bracket above the bottom brackets as shown. Use the M10 x 260 & M10 x 240 Hex Head Bolts (8 & 11) and place them through the holes on the Clamp Angle Top Plate (11) and Clamp Tee Top Plate (9), then through the holes on the Bottom Clamp plates. Secure in place using two M10 Self-Locking Flange Head Nuts (5). DO NOT OVER-TIGHTEN. Over-tightening may cause the clamps to distort. Use only enough tightening force to prevent the Ramps (7) from moving around.

OPERATION



WARNING

NEVER exceed the 2000 lbs pull rating of the winch. If necessary, use a block and tackle to increase the available leverage and reduce the pulling force experienced by the winch.

To operate the Winch:

1. Set the ratchet switch on the winch to the neutral position.
2. Pull the hook and cable out.
3. Hook onto the sling or chain rigging wrapped around the load.
4. While pulling on the cable to add tension, turn the winch crank handle to remove any slack from the cable.

5. Continue turning the winch crank handle until there is slight tension on the cable and the load is just beginning to move.

6. Engage the ratchet lever, then continue to crank clockwise to evenly wind in the cable while moving the load.

When releasing a load or unwinding a cable under load, move the crank handle so the ratchet is disengaged, then move the ratchet lever to the unwind position to lower the load.

Using the Ramps:

Remove the ramps from the storage / transport position (clamped, and laying on the log supports) by removing the two M10 x 250 Hex Head Bolts (11) and M10 Self-Locking Flange Head Nuts (5). Remove the Clamp Angle Top Plate (8) and Clamp Tee Top Plate (9) and set aside.

Place the Ramps so the groove rests on the sawmill guide rail.

Prior to cutting:

After winching a log onto the log supports, secure the log in place with the log dogs, remove any rigging from the log, then remove the Ramps (7) prior to any cutting.

Winch the cable completely in, then remove the Clevis Pin (3), put the winch kit in the horizontal position, and reinstall the Clevis Pin (3) prior to making any cuts.

Prior to transporting:

Install the Ramps into the storage/transport position by following the instructions in Step 8. Place the Winch in either the upright or horizontal position, ensure the Clevis Pin (3) is installed, and tighten the locking bolt.

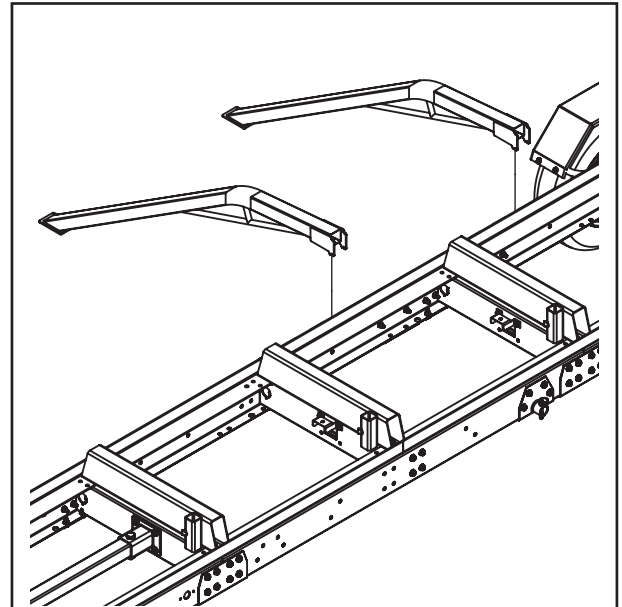


Fig. 5

MAINTENANCE

WARNING Only qualified service personnel should repair this equipment. An improperly repaired device may present a hazard to the user and/or others.

WARNING DO NOT MAKE MODIFICATIONS TO, OR WELD ON, ANY PART OF THE WINCH OR WINCH SYSTEM. Cutting, drilling, welding, or heating will weaken the structural integrity of the machine and could result in serious personal injury or damage to property.

To keep your machine looking optimal and running smoothly for many years, proper periodic maintenance is recommended.

- Always observe the operation of the machine during operation. Immediately stop all operations if there are any abnormal sounds or movements. Carefully inspect for any hazards and determine if a more detailed inspection is required.
- Maintain the winch and winch system with care. A machine in good condition is efficient, easier to control and will have fewer problems.
- Inspect the winch and winch system components periodically, at least every six-months and prior to each use. Repair or replace damaged or worn components. Use only identical replacement parts when servicing.

- Keep the surfaces clean, dry and free from oil/grease at all times.
- Maintain the Crane's labels and name plates. These carry important information. If unreadable or missing, contact Star-Asia LLC for replacements.

RUST AND CORROSION:

Although the winch and winch system has been treated to help eliminate rust and corrosion, it may be necessary to protect the winch and winch system from the elements by moving it into a garage, or storing it under a tin roof or carport to help prevent weathering from rain and snow. It is recommended to apply car wax to painted surfaces at least once a year. Use a rust inhibiting paint in areas where the color coating may have chipped or become deeply scratched.

Apply a coat of lithium grease on all exposed threads, adjustment bolts, and inside nuts or threaded holes that are not being used.

Lubricate the winch cable from time to time, at least every six-months to prevent corrosion.

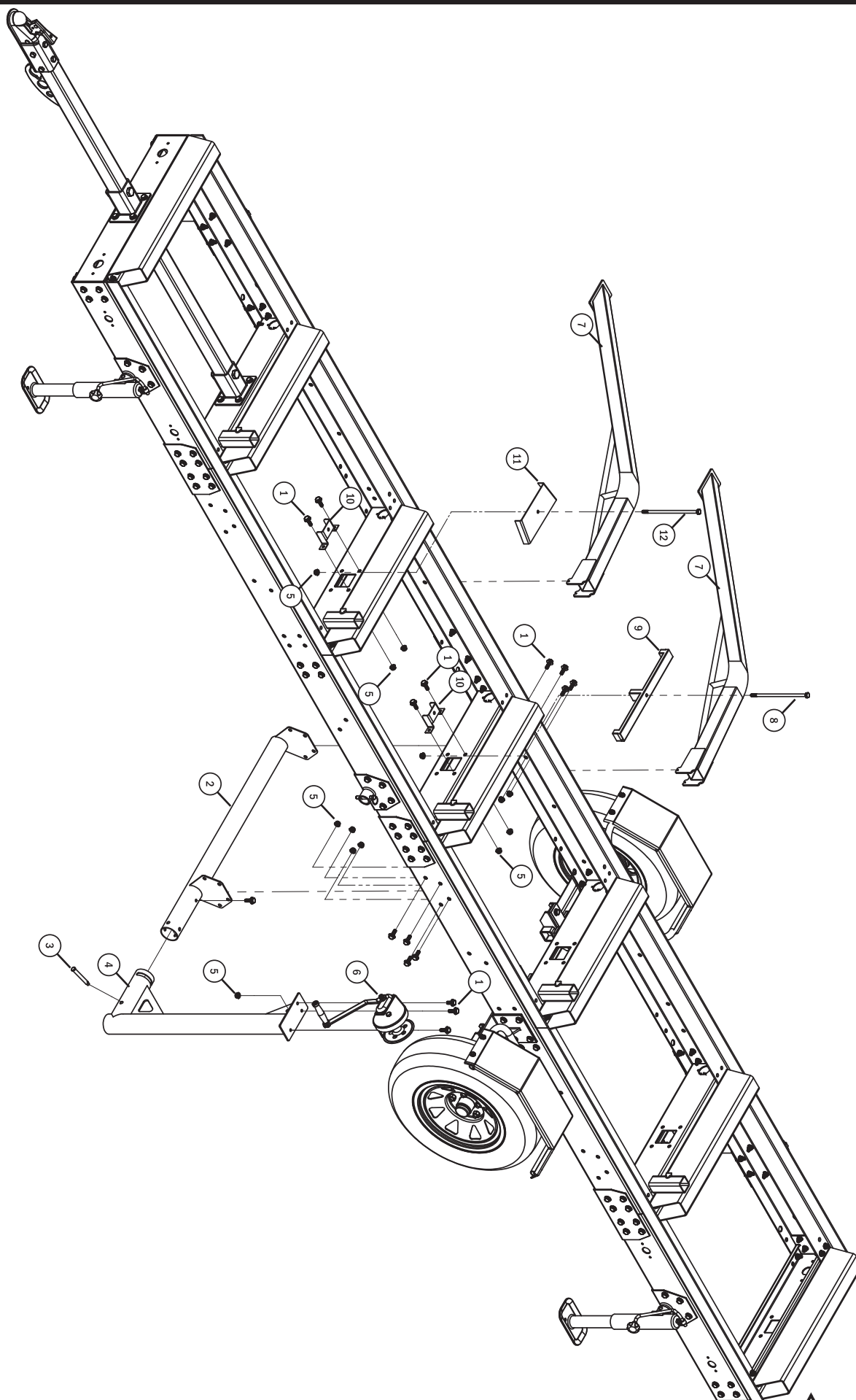
Use a tarp to cover the trailer when stored for an extended period.

DISPOSAL

Recycle a winch damaged beyond repair at the appropriate facility.

Contact your local municipality for a list of disposal facilities or by-laws for electronic devices, batteries, oil, or other toxic liquids.

NOTICE! Do not pollute the environment by allowing uncontrolled discharge of waste oil.



Note: Trailer not included

BOZEMAN

PARTS LIST

Item	Description	Qty
1	Bolt, Flange Hd M10 x 30	16
2	Tube, Horiz. Mounting	1
3	Pin, Clevis 12x100	1
4	Tube, Vert. Mounting	1
5	Nut, Self-Locking Flange M10	16
6	Winch, 2000lbs	1
7	Ramp	2
8	Bolt, Hex Hd M10 x 260	1
9	Tee Top Plate, Clamp	1
10	Bottom Plate, Clamp	2
11	Angle Plate, Clamp	1
12	Bolt, Hex Hd M10 x 240	1

90 DAY LIMITED WARRANTY

Star Asia-USA, LLC (hereinafter “seller”) warrants to the original purchaser only, that this product will be free from defects in material or workmanship for a period of 90 days from date of purchase for home domestic use.

Warranty Performance

Warranty coverage is conditioned upon purchaser furnishing seller or its authorized service center with adequate written proof of the original purchase date. Products returned, freight prepaid and insured, to our factory or to an Authorized Service Center will be inspected and repaired or replaced, at seller’s option, free of charge if found to be defective and subject to warranty. Defective parts not subject to normal wear and tear will be repaired or replaced, at our option during the above stated warranty periods. In any event, reimbursement is limited to the purchase price paid. Other than the postage and insurance requirement, no charge will be made for repairs or replacements covered by this warranty. Under no circumstances shall the manufacturer bear any responsibility for loss of the unit, loss of time or rental, inconvenience, commercial loss or consequential damages. There are no warranties which extend beyond the description of the face hereof.

Exclusions

This warranty does not cover parts damaged due to normal wear, abnormal conditions, misapplication, misuse, abuse, accidents, operation at other than recommended pressures or temperatures, improper storage of freight damage. Parts damaged or worn by operation in dusty environments are not warranted. Failure to follow recommended operating and maintenance procedures also voids warranty. Additional items not covered under warranty: product failure caused by rain, excessive humidity, corrosive environments or other contaminants; cosmetic defects that do not interfere with product’s functionality. This warranty shall not apply when: the product has been used for commercial or rental purposes; defects in materials or workmanship or damages result from repairs or alterations which have been made or attempted by others or the unauthorized use of nonconforming parts; this damage is due to abuse, improper maintenance, neglect or accident; or the damage is due to use of the product after partial failure or use with improper accessories. Warranty does not apply to accessory items. Seller will not be liable for: labor charges, loss or damage resulting from improper operation, maintenance or repairs made by persons other than a Star Asia-USA, LLC Authorized Service Center. The use of other than genuine Star Asia-USA, LLC repair parts will void warranty.

Warranty Disclaimers

NO WARRANTY, ORAL OR WRITTEN, OTHER THAN THE ABOVE WARRANTY IS MADE WITH REGARD TO THIS PRODUCT, ANY IMPLIED WARRANTIES OF SELLER REGARDING THIS PRODUCT INCLUDING BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE EXCLUDED. BUYER’S OR USER’S REMEDIES ARE SOLELY AND EXCLUSIVELY AS STATED ABOVE. STAR ASIA-USA, LLC SHALL IN NO EVENT BE LIABLE FOR INCIDENTAL, CONSEQUENTIAL, INDIRECT, OR SPECIAL DAMAGES. IN NO EVENT, WHETHER AS A RESULT OF A BREACH OF CONTRACT, WARRANTY, TORT (INCLUDING NEGLIGENCE) OR OTHERWISE, SHALL SELLER’S LIABILITY EXCEED THE PRICE OF THE PRODUCT WHICH HAS GIVEN RISE TO THE CLAIM OR LIABILITY. ANY LIABILITY CONNECTED WITH THE USE OF THIS PRODUCT SHALL TERMINATE UPON THE EXPIRATION OF THE WARRANTY PERIODS SPECIFIED ABOVE.

Limitations on Warranty Disclaimers

Any implied warranties shall be limited in duration to 90 days from the date of purchase. In some states of the U.S.A. and in some provinces of Canada there is no limitation for how long an implied warranty is valid, so the aforementioned limitation may not apply to you. In no event shall a seller be liable for any incidental or consequential damages (including but not limited to liability for loss of profits) arising from the sale or use of this product. In some states of the U.S.A. and in some provinces of Canada the exclusion or limitation of incidental or consequential damages is not allowed, so that aforementioned limitation or exclusion may not apply to you.

This Limited warranty gives you specific legal rights, and you may also have other rights which vary from state to state in the U.S.A., Canada and the Commonwealth of Puerto Rico. For warranty coverage within other countries, contact your local star Asia-USA, LLC dealer or importer.

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