



Item 86008

Log Skidding Arch

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.

 **WARNING**

This tool is intended for OFF ROAD use ONLY. It is **NOT** intended for use on public roads or highways. Always using an approved helmet and protective gear **COULD SAVE YOUR LIFE!**

Federal, state, provincial, and municipal governments have different regulations pertaining to operating off road vehicles. Learn and follow the regulations in your area.

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
	Read and understand this instruction manual prior to using this product.		Wear anti-vibration gloves when operating.
	Wear ANSI approved (or applicable national standard) goggles or properly fitted protective glasses with top and side protection.		Wear foot protection.

INTENDED USE

Designed for skidding logs, transporting from the cutting site to the landing area or sawmill, the log arch improves mobility by elevating the log off the ground to reduce friction and allow for easier movement over rough terrain, prevents damage to the log,

and minimizes forest soil disturbance to promote better environmental stewardship. The Log Arch may be used with various types of equipment configured with a 2 in. ball hitch, such as UTVs, ATVs, and tractors. The Log Arch is NOT configured for use on public roadways and is intended for off-road use ONLY. Consult with your federal and state transportation departments regarding trailer safety regulations.

SPECIFICATIONS

Specification	Value
Max. Log Diameter	25 in. (635 mm)
Max. Log Weight	1500 lbs (680 kg)
Wheels	16 x 6.5-8 Tube
Hitch	2 in. Quick Locking
Lashing Chain Length	87 in.
Winch Type	Hand-Operated, with Polyester Webbing Lifting Rope

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.

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



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.
- Keep out of reach of children.
- 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 appropriate footwear that provides toe protection and complies with ASTM F2413 or CSA Z195-14 and 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 Log Arch 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 Log Arch. Keep long hair covered and bound.
- Wear gloves that provide protection based on the work and 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 Log Arch.
- 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.**

! WARNING **Using a Log Arch that is incorrectly assembled or installed can be very dangerous. If you do not feel completely comfortable or confident in assembling or installing, seek the services of a competent and qualified technician to assemble and install it for you.**

- 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 Log Arch if any parts are damaged, broken or misplaced. Repair or replace the parts.
- Do not use the Log Arch if it appears or sounds to be operating abnormally. Seek a qualified technician to repair and verify the Log Arch and its components are operating correctly before using.
- Assembly, maintenance, and/or repair of the Log Arch and its 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.
- Loose clothing, long hair, or articles worn by an operator must be fully contained or

- covered to prevent being caught in any rotating parts.
- Ensure the ATV or UTV power is OFF and the brakes are locked prior to hitching, loading, and unloading of the Log Arch to avoid unintentional movement.
- Never use the Log Arch if the hitch coupler latching mechanism is not functioning correctly.
- Avoid backing up with the Log Arch. Backing up may cause binding, over-travel, and bending of the universal joints or coupler, resulting in damage to the vehicle or serious personal injury.
- Keep hands and fingers away from pinch points when using, adjusting, setting-up, and at installation.
- Attach the Log Arch to a vehicle that is on a surface that is stable, level, and not slippery.
- Place the towing vehicle in park, turn off the engine, engage the emergency brake, and block the towing vehicle to prevent movement prior to attaching the tow bar coupler to the hitch ball.
- ALWAYS chock the wheels on the Log Arch when raising a log with the winch.
- Ensure the Lashing Chain is properly connected before towing or skidding.
- Check to ensure all fasteners are tight and that the hitch coupler latching mechanism is operating correctly prior to use.
- WHEN OPERATING, ALWAYS TOW SAFELY:
 1. SLOW DOWN. Towing or skidding at a high speed is dangerous. Move at a very slow and easy speed. Stop immediately if the log is binding.
 2. Ensure the Log Arch and vehicle are on a level surface and the coupler is level within 5 degrees when attaching.
 3. Do not allow passengers to ride on the Log Arch or on any log being moved..
 4. Allow ample room to maneuver the vehicle and the Log Arch while towing or skidding.
 5. Allow for an increased turning radius when turning.
 6. Do not back up while towing or skidding a log.
 7. Adjust the coupler for proper fit to the ball and check all connections before and often during each trip.
- Wet, slippery, rough, or steep terrain is potentially dangerous and may result in injury if proper caution is not observed. Slow speeds are required to safely operate this Log Arch. The operator must use mature judgment, skill, and experience to choose a speed suitable for terrain and riding conditions.
- Disconnect the Log Arch from the ATV or UTV and chock the wheels after each use and before servicing the Log Arch.
- Operators under 18 years of age must 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 Log Arch and any of its components.
- Operate only on safe and familiar terrain. Avoid steep inclines, and allow for extra braking distances, especially on wet surfaces.

ASSEMBLY & INSTALLATION



WARNING

This is a complex and dangerous machine. The Log Arch 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 Log Arch will need to be assembled by the user or by a competent technician. Follow these steps to ensure proper assembly.

ITEMS IN PARENTHESIS () 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. Remove each piece from the box and set aside. Remove any plastic coverings. 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 frame parts. In a well-lit area with enough room to assemble and move the Log Arch around, lay out the Vertical Arch (14), the Right and Left Horizontal Tow Bars (5 & 6), and the Vertical Tow Bar (7).

Step 5: Assemble Wheels to the Vertical Arch. Place a Wheel Spacer (4) onto the axle shaft on one side. Install the Tire (2) onto the axle shaft, then place an M16 Washer and Nut (3) onto the shaft and tighten.

NOTE: the Horizontal Tow Bars are interchangeable and NOT marked Right or Left.

Step 6: Attach the Horizontal Tow Bars to the Vertical Arch. Align two holes on a Horizontal Tow Bar (5 or 6) to the holes on the Vertical Arch (14), and fasten loosely using two M12 x 70 bolts, washers, and nuts (13). Repeat this for the other Horizontal Tow Bar (5 or 6) on the other side of the Vertical Arch (14).

Step 7: Attach the Vertical Tow Bar to the Vertical Arch. Align the two mounting holes on the Vertical Tow Bar (7) to the holes on the Vertical Arch (14), and fasten loosely using two M12 x 70 bolts, washers, and nuts (13). Align the holes on the two Horizontal Tow Bars (5 and 6) with the holes at the Vertical Tow Bar (7). Secure these in place using two M12 x 80 bolts, washers,

and nuts (12). Tighten all the fasteners from Step 6 and 7 to between 49 and 55 ft-lbs.

Step 8: Install the 2 in. Coupler. Place the Coupler (8) onto the end of the Vertical Tow Bar (7), align the holes, and secure in place using four M12 x 80 bolts, washers, and nuts (12). Tighten to between 49 and 55 ft-lbs.

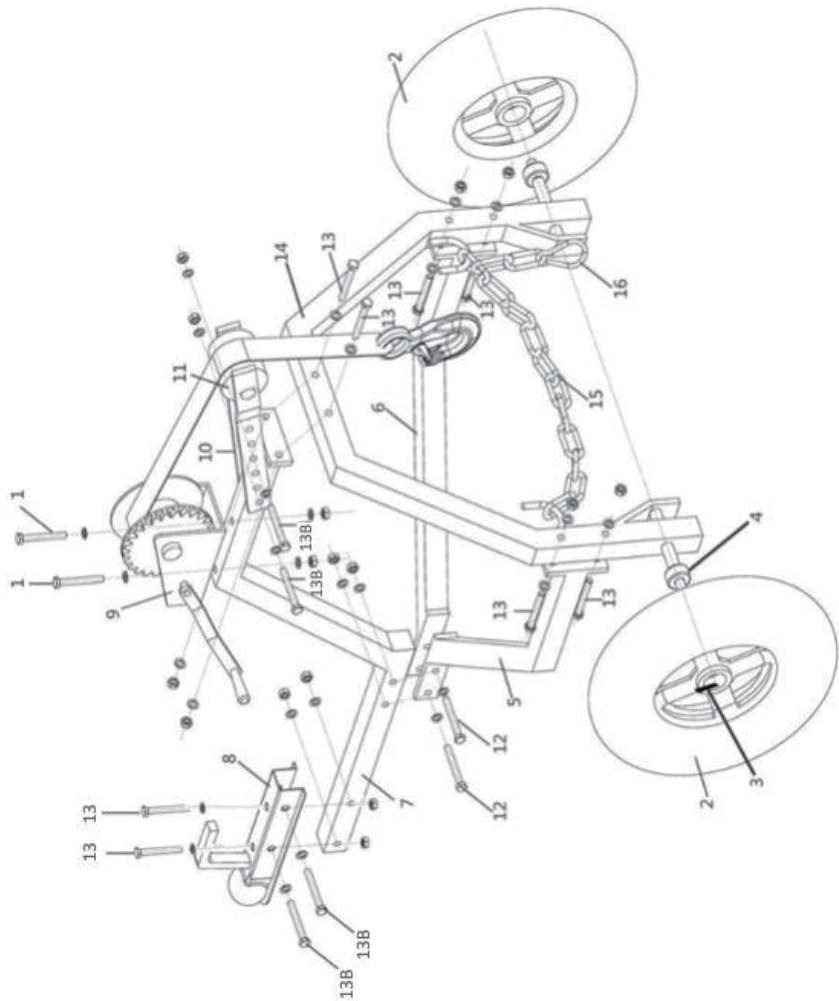
Step 9: Install the Winch Strap Roller Assembly. Remove the M12 x 70 bolt, washer and nut (13) at the end of the Winch Strap Roller Assembly. Place the Winch Strap Roller Assembly so the Roller Plates (10) are on top and so it straddles the Vertical Tow Bar (7). Align the holes and loosely fasten the Strap Roller Assembly with the M12 x 70 bolt, washer, and nut (13) that was removed. The Winch Strap Roller Assembly should pivot and will rest against the Vertical Tow Bar (7) on the second M12 x 70 bolt.

Step 10: Attach the Manual Winch. Align the mounting holes on the Manual Winch (9) to the holes on the Vertical Tow Bar (7), and secure in place using the two M10 x 60 bolts, washers, and nuts (1). Tighten to between 28 and 31 ft-lbs.

Step 11: Install the Handle on the Manual Winch. Align the mounting hole on the Winch Handle, and with the handle in the correct orientation, to the stud on the Winch (9) and secure in place.

Step 12: Attach the Lashing Chain to the hooks on the Vertical Arch. Attach the Chain (15) back and forth between the two hooks on the Vertical Arch (14) so it does not drag on the ground.

PARTS LIST



Item	Description	Qty
①	Bolt, M10 x 55 w/ Washers & Nuts	2 ea.
②	Tire, 16 x 6.5-8	2 ea.
③	M16 Nuts & Washers	2 ea.
④	Wheel Spacer	2 ea.
⑤	R. Horiz. Tow Bar	1 ea.
⑥	L. Horiz. Tow Bar	1 ea.
⑦	Vert. Tow Bar	1 ea.
⑧	2 in. Coupler	1 ea.
⑨	Manual Winch w/ Handle	1 ea.
⑩	Roller Plate	2 ea.
⑪	Roller Tube	1 ea.
⑫	Bolt, M12 x 80 w/ Washers & Nuts	2 ea.
⑬	Bolt, M12 x 70 w/ Washers & Nuts	4 ea.
⑬B	Bolt, M12 x 65 w/ Washers & Nuts	8 ea.
⑭	Vertical Arch	1 ea.
⑮	Chain, 87 in.	1 ea.
⑯	Carabiner	1 ea.

OPERATION

WARNING

Never exceed the lowest rating of any part of your towing

system. Refer to your ATV or UTV manual for information about its tow rating.

- DO NOT use the Log Arch to transport other items. The Log Arch is to be used only for skidding logs.
- Ensure the tires on the both the ATV/UTV and Log Arch are in good condition and inflated to the maximum recommended air pressure.
- While towing, allow more distance for maneuvering, accelerating, and stopping. Slow down well in advance of sharp curves, obstacles.
- DO NOT attempt to skid a log while descending a hill or with the ATV/UTV on the downhill slope.
- A Log Arch that sways excessively or seems unstable while skidding is dangerous. DO NOT continue if instability continues. Gradually slow down, move to a safe location, chock the log to prevent it from moving and inspect all connections.

HOOKING UP TO THE TOWING VEHICLE

1. Use a hitch with a 2 in. (50.8 mm) Hitch Ball that exceeds the Log Arch haul rating.
2. Ensure the tow bar is level. Do not exceed a height differential with the tow bar greater than +/-5°. If it exceeds this amount, then use an adjustable height hitch ball mount or adjust the base plate height so the tow bar is level.
3. Place a lock into the locking mechanism on the coupler and lock it to ensure the ball coupler and ball hitch does not come apart.
4. Ensure the Winch Strap is fully retracted and the Lashing Chain is removed or secured between the two hooks on the arch. The chain should not be allowed to drag on the ground.

SKIDDING A LOG

WARNING

Skidding a log is a dangerous operation.

Follow all local codes regarding workplace and labor safety. Training and familiarity in Logging Operations Safety, such as Washington Administrative Code Title 296-54, is highly recommended.

Chock the log before attempting to lift to prevent it from rolling.

1. Back up the Log Arch so that the arch is straddling the log and so the end of the log is close to the vertical and horizontal tow bars with clearance and not touching.
2. Chock the wheels on the towing vehicle before lifting the log with the winch strap
3. Extend the winch strap with enough slack to reach and wrap at least one loop around the log, then use a timber jack to lift the log, or alternatively dig underneath, and pass the strap under the log. Hook the end of the strap back onto itself at the top of the log.
4. Crank the winch handle to lift the log so the log end is at least 6 in (150 mm) from the ground and remove the timber jack.
5. Hook one end of the chain to one of the hooks on the arch, then pass the chain under the log. Ensure the chain is on the long end of the log, with the strap on the inside closest to the arch, and with at least one loop around the log.
6. Adjust the chain length so that it is tight, then hook one of the loops on the chain onto the hook on the opposing side of the arch. If necessary, raise the log with the winch so that the chain can be hooked. Pass any additional length of chain under the log and hook the carabiner onto one of the links of the chain or onto the opposite hook and so the chain is tight.
7. With the vehicle brake locked, remove the chocks at the log and ATV/UTV

- wheels, then slowly and carefully skid the log to the desired location.
8. Once the log is in place, unhook the chain from the arch hooks, then lower the log to the ground by unwinding the winch.
9. Use a timber jack to lift the log and pull the winch strap and chains from under the log.
10. Wind the winch strap back onto the winch and store the chain for next use.

CARE AND MAINTENANCE

GREASE POINTS

A quality high pressure grease is recommended.

The wheel bearings need to be periodically greased annually, semi-annually, or as needed, depending on the amount of use and based on the environment.

RUST AND CORROSION

Although the Log Arch has been treated to help eliminate rust and corrosion, it may be necessary to protect the surfaces from the elements by parking 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.

BEFORE EACH USE

Check that the tires are properly inflated. Check fasteners have not become loose. On fasteners that have lock nuts, be sure to back off the lock nut, check the fastener, then tighten the lock nut to prevent the fastener from backing off.

ADJUSTING THE COUPLER:

With the coupler locked onto a 2 in. (50.8 mm) hitch ball, tighten the nut underneath the coupler JUST ENOUGH TO FULLY COMPRESS THE HELICAL SPRING AND SO THE BALL/COUPLER JOINT DOES NOT MOVE. DO NOT OVER-TIGHTEN.

Back off the nut by 1/2 to 3/4 of a turn.

Operate the lock/unlock lever and ensure the coupler can be disengaged from the hitch ball. Re-adjust if necessary.

TROUBLESHOOTING:

Contact your distributor for a solution if the tool does not function properly or parts are missing. If unable to do so, have a qualified technician service the tool.

DISPOSAL:

Recycle a Log Arch 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.

IMPORTANT! DO NOT pollute the environment by allowing uncontrolled discharge of waste oil.

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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