



Signature Series Instruction Manual for
FoxFury Model 200-FF261-2 & 200-FF261-5 Intrinsic Safety Headlamp
 Manufactured by FoxFury, LLC



<p>FOX FURY, LLC MODEL FF261 - Intrinsically Safe Headlamp - Read Manual plus all included warnings before use! Warning! Risk of Ignition. Do not open in Haz. Loc. Change batteries only in a location known to be non-hazardous. 4x 1.5V "AA" Alkaline Batteries</p>	<p align="center">NRTL LISTED UL-913 Listing # E112432 Class 1 Div. 1 Grps C & D T6, Class 1 Div. 2 Grps A B C D T6</p>
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UL-913 Listing No. E112432

UL Class 1, Div 1, Grps C & D; T6
UL Class 1, Div 2, Grps A, B, C, & D; T6

TURNING YOUR SIGNATURE INTRINSIC LIGHT ON/OFF:

Tap Switch: Once batteries are installed and the battery cap is securely tightened, the tap switch will then control the ON-OFF function of the headlamp. In case of suspected damage to the headlamp, turn unit off at both the tap switch and the battery pack cap.

The battery cap can also act as an ON-OFF switch:

- To turn ON: rotate CLOCKWISE, 1/2 to 3/4 of a turn past the ON point.
- To turn OFF: rotate COUNTER CLOCKWISE, 1/2 to 3/4 of a turn past the initial OFF point to ensure the light remains OFF.
- Light can be turned ON and OFF more conveniently via the Power Switch on top of the light bar, (on left side).

NOTE: Make sure to turn light OFF when not in use.

ACCEPTABLE BATTERY TYPES:

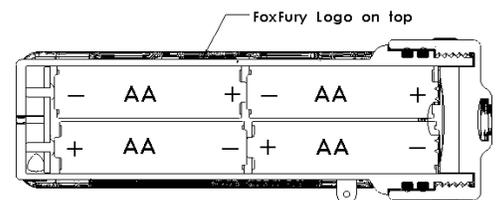
The Signature Intrinsic Lights require four (4) AA batteries each. Alkaline and Lithium Iron are acceptable (1.2 to 1.6V each).

- Alkaline battery types (actual run time will depend upon battery quality and charge):
 - Duracell Ultra (M3) Copper-Top Alkaline AA batteries, *P/N MX1500* (best)
 - Duracell Copper-Top Alkaline AA, *P/N MN1500, or PC1500* (good)
 - Eveready Alkaline AA batteries, *P/N E91* (acceptable)
- Lithium Iron Sulfate (Li-FeS₂), *P/N L91, FR6*, 1.5V, Eveready.

BATTERY INSTALLATION/REPLACEMENT:

For *Signature Series* Intrinsic models:

1. Unscrew the cap of the battery compartment.
2. Install Four (4) each 1.2 to 1.5V AA batteries.
 - a. Respect appropriate polarity when installing (the inside of the battery pack indicates proper battery placement; see diagram at right)
3. Twist cap back on.
 - a. To get cap started, press against the battery pack in order to overcome the O-ring seating compression. You will notice slightly increased friction as you tighten the cap.
 - b. NOTE: The dual O-ring gasket seals are necessary to create a gas tight and waterproof seal.



Battery Orientation in Case

BATTERY LIFE:

STAGES OF BATTERY LIFE:

The FoxFury *Signature Series* Intrinsic Lights will transition through three (3) different stages of battery life as the batteries run down to their end-of-life condition:

STAGES OF BATTERY LIFE	
NORMAL	Fresh batteries provide 6 to 8 hours (constant ON) of Normal mode operation.
RESERVE	This stage begins when 50% or slightly less of the initial starting brightness is present. 22 to 24 LEDs will remain "ON", at reduced brightness, for an additional 1 to 2 hours, when using a set of alkaline batteries. This reduction in brightness is intended to alert you that it is time to change the batteries. A shorter Reserve stage is to be expected in Cold temperatures.
EMERGENCY	A few additional LEDs may dim or go out completely during this stage. Most LEDs will remain ON and continue to output a useful light level for an additional 30 hours (or longer in warm temperatures). This minimum level of lighting is enough to read a map, act as a beacon or marker, or walk at a moderate pace (4 to 12 Foot-candles).

*The above chart indicates information tested with Alkaline Batteries.

When in the **Emergency** Stage, (while the batteries seem to be almost expended), the brightness can be temporarily increased:

Turn the Foxfury light "OFF" for 3-5 minutes.

When turned back "ON", the unit will come on at about twice the brightness for a short period of time (2 to 4 minutes), and then return to the normal low level output for the remaining time or until cycled again.

Each successive time will require a longer wait of "OFF" time, resulting in a shorter Higher Brightness period.

Expected Hours of Use according to Stage

STAGE	# of LEDs ON	# OF Hours of Use	Total Hrs
NORMAL	24	6 – 8	6 – 8
RESERVE	22 - 24	1 – 2	7 – 10
EMERGENCY	20 - 24	30 - 45	37 - 55

FoxFury Lights are tested for battery-life using fresh Duracell alkaline batteries and continuous run-times. Battery life can be extended by keeping them warm in cold weather or turning the unit off when it is not needed. Your own body heat can keep a spare set of batteries ready for use, or slightly extend the life of an almost exhausted set when they are cold.

PRODUCT DURABILITY, ENVIRONMENTAL CONSTRAINTS & CERTIFICATIONS:



Meets NFPA 1971-2007 Fire Resistant Requirements: 500°F / 260°C for 30 minutes

STRAPS:

Both Intrinsic Models include a Silicone Strap. Adjust head band to properly fit the individual user.

CABLE GUIDE:

A black cable guide with Velcro is included with your headlamp. It is best used when wrapped around both the strap and cable, which makes the cable less likely to be caught or snagged on any surrounding objects.

DUAL GASKET CARE:

- Use silicone based lubricant grease around the dual gasket seal on the battery pack.
 - Every 3-5 battery changes, re-apply a small amount of silicone grease.
 - Every 7-10 battery changes, take a thin small flat-blade screwdriver (jewelers or similar) at an angle and lift the gasket a small distance. Using a swab or toothpick, apply several spaced apart dabs of silicone grease underneath it. Remove the screwdriver, and then spin the ring in both directions to effectively spread out the silicone grease. Repeat for the second gasket, on the opposite side of the battery pack. A spare replacement set of gaskets is included with each light.
1. The first (lower) 'O'-ring is necessary to create a water tight seal. For repairs or replacement, simply slip the old 'O'-ring off and install a new one onto the threaded neck of the battery pack. The cap will become stiffer to turn until a small amount of silicone grease is applied. Applying a small amount of silicone grease is required after cleaning, or replacement, and as part of normal user maintenance.
 2. The second (upper) 'O'-ring makes the unit intrinsically safe. After placing this second 'O'-ring on the battery pack, the cap will be slightly more difficult to turn even with the proper amount of silicone grease applied. When the difficulty of turning the cap increases again during use, take it as notice to apply more silicone grease – **to keep the unit rated as intrinsically safe**. This also makes it easier for you, as the user to turn the unit ON or OFF.

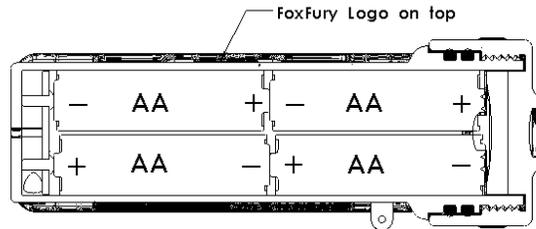
BATTERY PACK MAINTENANCE:

DEALING WITH CORROSION FROM LEAKING BATTERIES

Battery leakage may cause "corrosion" to build in the battery pack contacts, causing light not to function properly. In case of the presence of Corrosion on the battery pack contacts, please follow the suggested steps listed below:

1. Mix 50% vinegar and 50% water.
2. Remove batteries from the battery pack.
3. Pour the combination into the battery pack and let soak for 5 minutes.
4. Remove fluid from inside the battery pack and dry it properly with a paper towel, and a blow drier set to Medium or Low heat settings, held 6" or further away (make sure no liquid residue is left inside battery pack).
5. Replace your batteries and test the light's function.
6. Repeat as needed.
7. For the metal disc, inside the cap, if scrubbing is needed; a moistened vitamin C tablet can be used. Rinse well and dry as noted above.
8. After using a set of batteries to the point of exhaustion, remove them as soon as possible and replace them with new ones – to prevent outgassing from causing corrosion.

NOTE: Corrosion from leaking batteries or battery outgassing is not covered by warranty.



Battery Orientation in Case

BATTERIES:

- Inside the battery case cavity is a set of orientation markings for battery polarity. Install both battery pairs as shown, one pair on top of the other.
- The warmer the batteries remain while in use, the longer their life (room temperature to body temperature is ideal).
- Depending on temperature and battery brand used, an average of eight (8) hours performance is expected with each set of fresh batteries.
- Do not mix different brands of batteries, or new batteries with used batteries.
- Respect the polarity of the batteries when installing them in the battery pack. Failing to do so may result in gaseous emissions, and/or caustic chemicals from leaking batteries. With just one battery installed backwards, the unit will function for a much shorter time than normal, the reversed battery may become hot and may emit gas or leak caustic chemicals.

AVAILABLE ACCESSORIES:

- *Black Silicone Strap, p/n 600-027*
- *3D Fury Glow Silicone Strap, p/n 600-026*
- *Elastic Strap, p/n 60-019*
- *Helmet Hold Down (set of 2), p/n 50-023*
- *Overhead Strap, p/n 600-002*



Warnings

WARNING: To reduce the risk of ignition of a flammable or explosive atmosphere, batteries must be changed only in a location known to be non-hazardous.

WARNING: Respect the polarity of the batteries when installing them in the battery pack. Failing to do so may result in gaseous emissions, and/or caustic chemicals from leaking batteries.

WARNING: To reduce the risk of explosion, do not mix old batteries with new batteries, or mix batteries from different manufacturers.

WARNING: This unit contains no user serviceable parts in the electrical circuits. Do not attempt repairs to the battery pack, cable, or headpiece printed circuit board. The unit must be returned to the factory for all electrical or PCB coating repairs.

WARNING: When a fresh set of batteries are installed, if all 24 LED's do not light up. DO NOT use the product in a hazardous area, return the unit for repair

Warnings- continued

WARNING: Due to the nature of where the Intrinsic Safety Model FF261 may be used, DO NOT operate or use the unit in a hazardous location with a broken or cracked LED. Quickly rotate the battery pack switch to "OFF" if a LED is broken while in a hazardous area or zone, by turning the battery pack cap to "OFF" - rotate cap COUNTER- CLOCKWISE, at least a half-turn past when the unit shuts down.

WARNING: If the unit is dropped from a height of more than 8 ft/2.4 m, it is recommended that the unit be turned off until it can be inspected for cracked or broken LED's outside of any hazardous location areas.

WARNING: Do not subject the unit's headpiece to bending or twisting motions. It contains a printed circuit board (PCB) that is conformally coated, while the coating is flexible; excessive bending or twisting can cause the coating to fail and lose its integrity. This is most important when exposed to temperatures, below freezing.

WARNING: Any motion or drop that is severe enough to pop out the back-plate from the headpiece, is cause to remove the unit from use (remove from service) and return it to the factory. Where the unit can be inspected and repaired as necessary, before the unit is returned to normal use.

WARNING: Lights are strong enough to cause damage to the human eye. Do not stare into LEDs for long periods of time or from a close range (less than 2 ft).

FoxFury LLC is not responsible for the incorrect use of the FoxFury Lighting product. Usage of this product must be supervised by an adult when used by a minor.

FoxFury LLC is not responsible for any injury or damage caused during the use of this product.

Any FoxFury product should be operated at speeds safe enough to maneuver around surrounding obstacles.

Do not use under the influence of drugs or alcohol.

Important --- In case an LED gets broken:

The FoxFury unit is designed to take a fall, even several, from a height of 30 feet or less onto a concrete floor. However, it may hit a small or protruding object that could crack an LED.

If the unit is dropped from a height of more than 8 feet, it is recommended that the unit be turned off until it can be inspected for cracked or broken LEDs outside of any hazardous location areas. Use an almost exhausted set of batteries when checking for cracked LEDs - a dim light output makes checking easier, a pair of sunglasses may help.

A broken or malfunctioning LED can cause a decrease in battery life.

Due to the sealants coating the electronics, your FoxFury Lighting Product must be returned to FoxFury in order to assess how best to proceed in fixing the unit. Do not attempt to repair the unit yourself.

The battery pack contains a fast-acting fuse and a fusible resistor, neither of which can be replaced by a user; return the unit to FoxFury for replacement of the battery pack section.

GENERAL CARE & USE

Treat FoxFury Lighting Systems lights the same way you would an expensive pair of glasses or goggles.

- **Before each use of the unit. Check that both 'O'-rings are present, have no nicks and are greased. If additional grease is required, use a silicone-based lubricant grease around the grooves and both 'O'-ring seals on the battery pack, to ease turning of the battery cap, and to insure a gas-tight seal.**

- A new set of replacement 'O'-rings may be ordered from FoxFury, LLC; or on-line from www.FoxFury.com. Use ONLY 'O'-rings supplied by FoxFury, LLC or via FoxFury.com to keep the unit rated as Intrinsically Safe, to UL-913. Order P/N FF261-BPOR for the replacement 'O'-ring set of two. A set of spare O-rings is supplied with each unit purchased.

- Do not subject the unit's headpiece to bending or twisting motions.

- Any motion or drop that is severe enough to pop out the back-plate from the headpiece, is cause to remove the unit from use (remove from service) and return it to the factory, where an additional coating layer can be applied and tested, before the unit is returned to normal use.

- The first (lower) 'O'-ring is necessary to create a water tight seal. The unit becomes WATERPROOF when just the first 'O'-ring is installed. For repairs or replacement, simply slip the old 'O'-ring off and install a new one onto the threaded neck of the battery pack. The cap will become stiffer to turn until a small amount of silicone grease is applied. Applying a small amount of silicone grease is required after cleaning, or replacement, and as part of normal user maintenance.

- The second (upper) 'O'-ring helps to make the unit explosion proof. After placing this second 'O'-ring on the battery pack, the cap will be slightly more difficult to turn even with the proper amount of silicone grease applied. When the difficulty of turning the cap increases again during use, take it as notice to apply more silicone grease – **to keep the unit rated as intrinsically safe.** This also makes it easier for you, as the user to turn the unit ON or OFF.

EXTERIOR CLEANING

- Be sure that the battery pack is sealed before washing. Wash your FoxFury headpiece using a damp cloth and a mild soap. Pat dry with a soft cloth. Do not use paper towels to dry around the LED's, only use soft cotton or flannel.
- Be sure to reapply a small amount of silicone-based lubricant grease onto battery pack 'O'-rings after cleaning.

LIMITED WARRANTY

FoxFury Limited Warranty & Customer Care Information

FoxFury, LLC ("FoxFury") warrants to the purchaser of this product ("Buyer") that for a period of two years following purchase, this product will be free from defects in material and workmanship and will function in substantial compliance with FoxFury's written specifications for this product as specified in the instruction manual or on FoxFury's website located at www.foxfury.com. Buyer's exclusive remedy shall, in any case, be limited, at FoxFury's election, to: A) repair or replacement of the defective product; or B) refund of the purchase price for this product. **THE FOREGOING WARRANTY IS THE ONLY WARRANTY MADE BY FOXFURY WITH RESPECT TO THIS PRODUCT. TO THE EXTENT ALLOWED BY APPLICABLE LAW, THERE ARE NO REPRESENTATIONS OR WARRANTIES OF ANY KIND BY THE FOXFURY, EXPRESS OR IMPLIED, WITH RESPECT TO THE CONDITION OR PERFORMANCE OF THIS PRODUCT, INCLUDING, BUT NOT LIMITED TO, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. This limited warranty shall not apply if this product is not stored, handled, installed or used in strict accordance with manufacturer's specifications and instruction manuals, or which has been subject to misuse, alteration, negligence or accident.**

1. The damaged part or product must be returned to FoxFury **PRIOR TO** any repair or replacement. Shipping costs are the responsibility of the claimant.
2. You must obtain a return authorization (RMA) number from FoxFury prior to returning products. FoxFury is not responsible for any damage incurred while in transit.
3. Buyer will be required to show proof of purchase – No Exceptions.
4. Any modifications to light, cable or battery pack automatically voids all warranties on this product.

All warranty inquiries should be directed to FoxFury's Customer Service Department to handle all warranty/repair-related inquiries.

TO THE EXTENT ALLOWED BY APPLICABLE LAW: (A) IN NO EVENT, WHETHER DUE TO BREACH OF WARRANTY HEREUNDER OR ANY OTHER CAUSE WHATSOEVER, SHALL FOXFURY BE LIABLE FOR OR OBLIGATED IN ANY MANNER TO PAY CONSEQUENTIAL, INCIDENTAL OR INDIRECT DAMAGES, INCLUDING, BUT NOT LIMITED TO, LOSS OF PROFITS, COST OF SUBSTITUTE PRODUCTS AND PERSONAL INJURY OR PROPERTY DAMAGE, WHETHER SUCH CLAIM IS BASED ON CONTRACT OR TORT OR ANY OTHER THEORY OF LAW, AND (B) FOXFURY'S ONLY DUTIES IN CONNECTION WITH THE SALE OF THIS PRODUCT SHALL BE TO HONOR THE LIMITED WARRANTY SET FORTH HEREIN. TO THE EXTENT THAT THIS LIMITED WARRANTY IS INCONSISTENT WITH APPLICABLE LAW, THIS STATEMENT SHALL BE DEEMED MODIFIED TO BE CONSISTENT WITH SUCH APPLICABLE LAW.



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All FoxFury products are designed in Vista, CA. All FoxFury products are manufactured with the highest quality USA and foreign parts. Products are assembled in either FoxFury's controlled plant in Asia or the USA, under strict quality control.