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› SnapNrack Ultra Rail Mid Clamp (Model 242-02070) Instruction Manual

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INTRODUCTION

The SnapNrack Ultra Rail Mid Clamp is designed for securely mounting solar modules onto a roof-mounted Ultra Rail system. This component facilitates a streamlined installation process and contributes to the overall stability and aesthetic integration of the solar array.

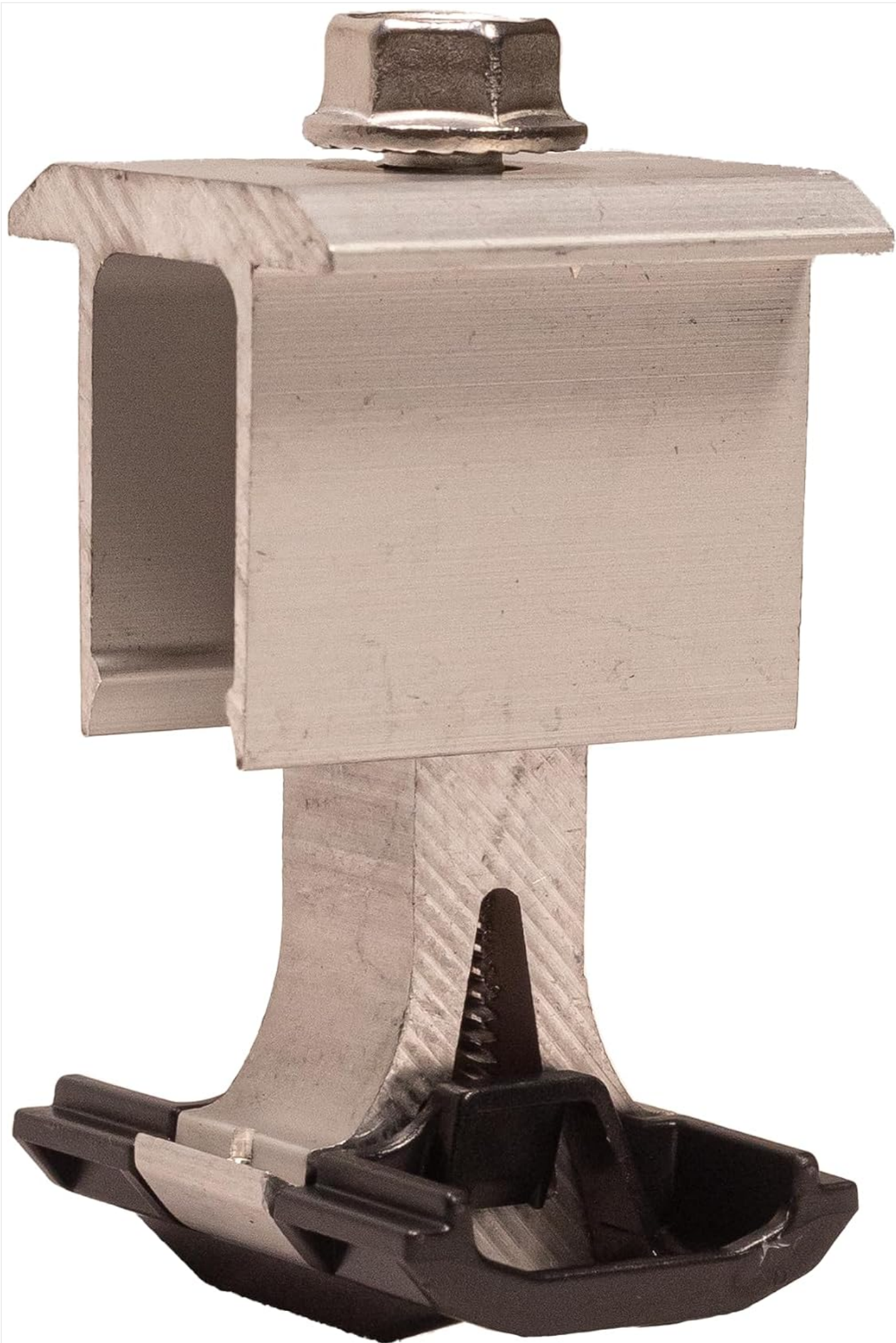


Figure 1: The SnapNrack Ultra Rail Mid Clamp, a key component for securing solar panels to a rail system.

Key characteristics of the Ultra Rail system, which this mid clamp is part of, include:

- **Aesthetics:** Designed for a clean appearance, with Universal End Clamps and snap-in End Caps that conceal the mounting system beneath the solar modules.
- **Wire Management:** Offers solutions for wire organization, including compatibility with Junction Boxes, Universal Wire Clamps, MLPE Attachment Kits, and Conduit Clamps.
- **Low-Profile Rail:** The rail design maintains an open channel for routing wires, contributing to a professional installation.
- **Span Capability:** Engineered to provide significant span capabilities compared to other light rail solutions.

PRODUCT COMPONENTS

The SnapNrack Ultra Rail Mid Clamp assembly consists of the following parts:

- SnapNrack Ultra Rail Mid Clamp Base
- SnapNrack Ultra Rail Mid Clamp Top
- 5/16 inch X 1 1/2 inch Bolt and Serrated Flange

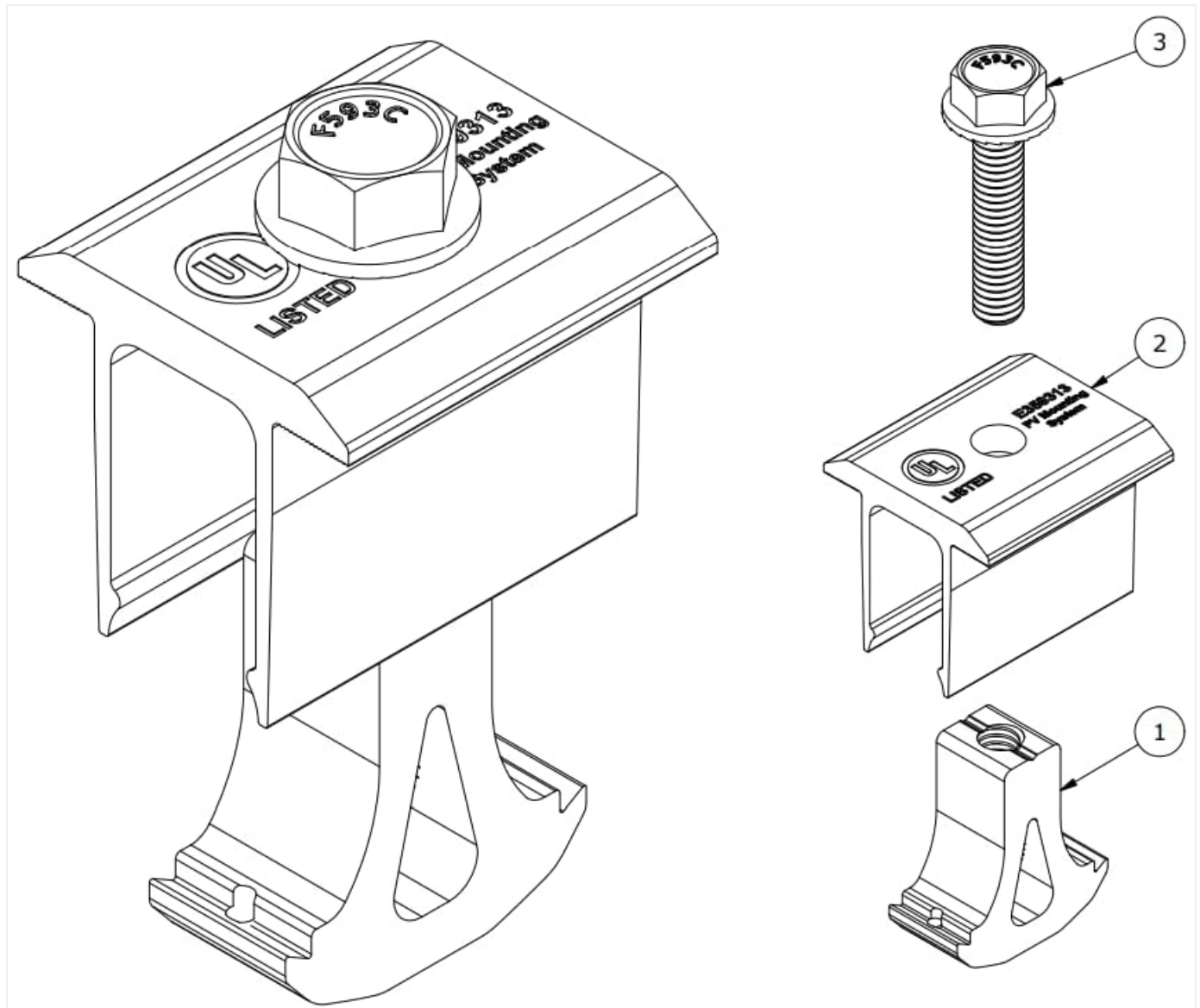


Figure 2: Exploded view showing the individual components of the SnapNrack Ultra Rail Mid Clamp, including the base, top, and bolt with serrated flange.

SETUP AND INSTALLATION

Proper installation of the Ultra Rail Mid Clamp is crucial for the secure attachment of solar modules. Follow these general steps for setup. Always refer to the complete SnapNrack installation guide for detailed instructions and safety precautions.

1. **Prepare the Rail System:** Ensure the SnapNrack Ultra Rail system is correctly installed and secured to the roof structure according to manufacturer specifications.
2. **Position the First Module:** Place the first solar module onto the rail system, ensuring it is properly aligned.
3. **Insert Mid Clamp Base:** Slide the SnapNrack Ultra Rail Mid Clamp Base into the channel of the Ultra Rail at the desired location where two adjacent solar modules will meet.
4. **Place Second Module:** Position the second solar module adjacent to the first, ensuring both modules rest on the mid clamp base.
5. **Assemble Mid Clamp:** Place the SnapNrack Ultra Rail Mid Clamp Top over the edges of both solar modules, aligning it with the base. Insert the 5/16 inch X 1 1/2 inch Bolt with Serrated Flange through the top clamp and into the base.
6. **Secure the Clamp:** Tighten the bolt to the manufacturer's specified torque settings. This secures both modules firmly to the rail system. Repeat this process for all mid-clamp locations between modules.



Figure 3: An installer's hand positioning the SnapNrack Ultra Rail Mid Clamp onto the rail system, ready to secure solar panels.



Figure 4: The SnapNrack Ultra Rail Mid Clamp shown fully installed, securing two adjacent solar panels to the mounting rail.



Video 1: An animation demonstrating the installation process of SnapNrack solar mounting components, including the mid clamp. This video provides a visual guide to the assembly and securing of solar panels using the SnapNrack system.

OPERATING PRINCIPLES

The SnapNrack Ultra Rail Mid Clamp functions as a static mechanical fastener. Its primary purpose is to apply consistent pressure to the frames of two adjacent solar modules, holding them securely in place on the Ultra Rail mounting system. The design ensures that the modules are held firmly against wind uplift, seismic forces, and other environmental stresses, maintaining the integrity of the solar array.

MAINTENANCE

The Ultra Rail Mid Clamp requires minimal maintenance. Periodic inspections are recommended to ensure the long-term performance and safety of the solar array.

- **Visual Inspection:** Annually inspect all mid clamps for any signs of corrosion, damage, or loosening.
- **Torque Check:** If any clamps appear loose, re-torque the bolts to the manufacturer's specified settings. Do not overtighten.
- **Cleaning:** Ensure that no debris or foreign objects are lodged around the clamps that could impede their function or cause damage.

Caution: Always exercise extreme care when working on a roof or near electrical components. Consult a qualified professional for any maintenance beyond visual inspection and simple cleaning.

TROUBLESHOOTING

Most issues related to mid clamps are installation-dependent. If you encounter problems, consider the following:

- **Loose Modules:** If solar modules feel loose or shift, check the torque on all mid clamp bolts. Ensure they are tightened to the manufacturer's specifications.
- **Module Misalignment:** If modules are not properly aligned, it may indicate that the clamps were not correctly positioned during installation. Loosen the clamps, realign the modules, and re-tighten.
- **Visible Damage:** If a clamp shows signs of physical damage (e.g., bending, cracking), it must be replaced immediately to maintain structural integrity.

For persistent issues or concerns about structural integrity, contact a certified solar installer or SnapNrack technical support.

SPECIFICATIONS

Attribute	Detail
Model Number	242-02070
Item Type Name	Solar Panel Mounting Clamp
Brand	SnapNrack
Material	6000 Series Aluminum, Stainless Steel
Color	Silver
Item Dimensions (L x W x H)	4 x 2 x 4 inches
Included Components	5/16 inch X 1 1/2 inch Bolt and Serrated Flange, SnapNrack Ultra Rail Mid Clamp Base, SnapNrack Ultra Rail Mid Clamp Top

WARRANTY INFORMATION

Specific warranty details for the SnapNrack Ultra Rail Mid Clamp (Model 242-02070) are not provided in this document. For comprehensive warranty information, including terms, conditions, and duration, please refer to the official SnapNrack website or contact SnapNrack customer service directly. Retain your purchase receipt as proof of purchase for any warranty claims.

SUPPORT AND CONTACT

If you require technical assistance, have questions regarding installation, or need to report an issue with your SnapNrack Ultra Rail Mid Clamp, please contact SnapNrack customer support. You can typically find contact information, including phone numbers and email addresses, on the official SnapNrack website.

For general inquiries or to find authorized installers, visit the [SnapNrack official website](#).

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

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After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question