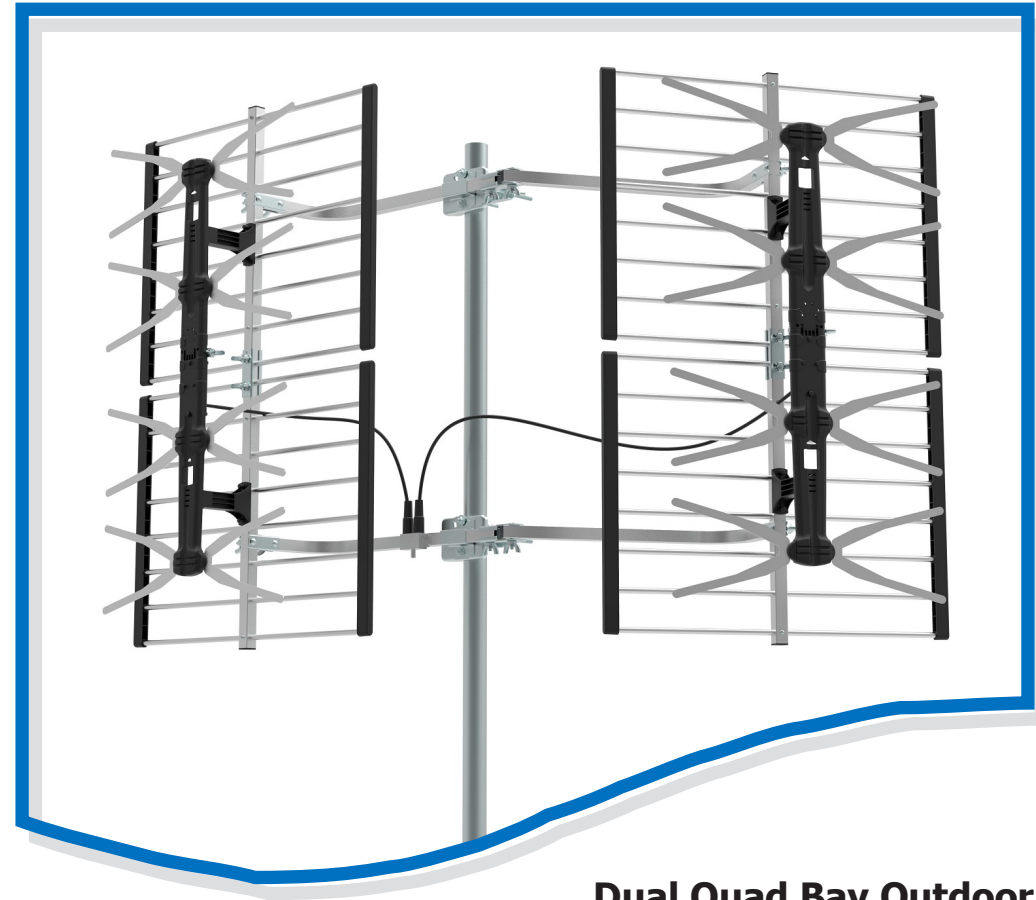


## Antenna Installation Guide



**Dual Quad Bay Outdoor  
UHF/HDTV Bowtie Antenna**

# Safety Guidelines and Procedures

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Listed below are extremely important safety guidelines that are to be followed when installing your Stellar Labs® antenna. Not following these guidelines can result in death or serious injury.

- Locate and take actions to avoid power lines and other wires in your work space.
- Do not climb onto a slick, icy, or wet roof.
- Avoid installations in high areas on windy days.
- Inspect the ladder you plan on using to ensure it is in safe operable condition.
- Do not position your ladder at an angle steeper than 70°.
- Do not climb on roofs that have curled or worn shingles. (Old shingles break easily or pull out.)
- Wear season-appropriate attire that is neither too loose or too tight. Always wear rubber-soled shoes with good grip
- Wear a pair of durable gloves that also allows normal mobility of your hands.
- Look around your work area to observe for any potential dangers.
- Never climb onto a high location while alone.
- Avoid installing your antenna underneath tree branches or other overhanging objects.
- Antennas should be installed away from power lines and other wires a distance equal to at least two times the combined length of the mast and antenna.

# Grounding Procedure

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## **Mast Grounding**

The NEC mandates that the antenna mast and mount be grounded directly. There can be no splices or connections in the ground wire between the mast and the grounding rod. First, attach one end of a No. 8 or No. 10 copper ground wire to the antenna mast. One of the bolts on the antenna mount can be used as a connection point. Masts that are painted or coated can have their coating scraped off on the area where they make contact to the mount. This will ensure a proper connection between the mast and the mount. Next, run the ground wire to the ground as directly as possible. Wire staples can be used to secure the ground wire against the side of a building. Avoid making right angle or sharper turns with the ground wire. Lightning has difficulty making such a turn and therefore may discharge into the building. Make ground wire turns as smooth and as slight as possible. The ground wire must be connected to a grounding rod. Water faucets and/or pipes are not acceptable. A copper-coated steel ground rod driven at least three feet into the ground is required. Special clamps that provide a solid connection between the ground wire and grounding rod should be used.

## **Grounding the Signal Cable**

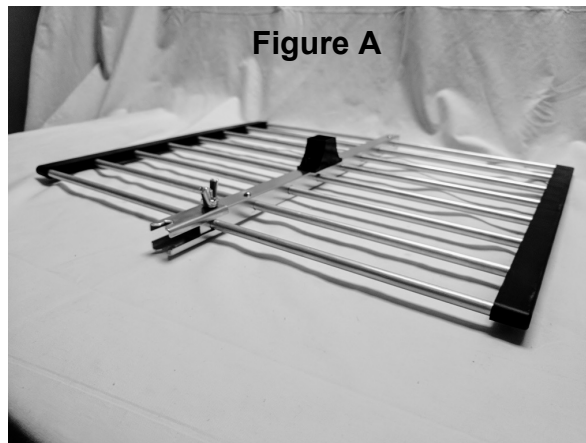
TV Antennas and signal cable can accumulate static electrical charges that also increases the chances of lightning strike. To properly dissipate this static electricity, a grounding block should be used. The grounding block is connected to the signal cable at a point close to where the signal cable enters the building (a signal splitter that has a tab for ground on it will also work.) One end of a ground wire is attached to the grounding block. The other end of the wire is connected directly to the grounding rod. An antenna installation is not properly grounded unless both a mast ground and an grounding block are installed correctly.

# Specifications

Frequency:	470~862MHz
Channel:	14 69
Impedance:	75Ω
# of Elements:	8
Gain:	19.25dB
F-B Ratio:	22dB
Beam Width:	H 60° / V 32°
Length:	32.7"

# Assembly Instructions

**Step 1:** Attach mounting brackets "A" (as pictured below) to two of the four reflectors using the provided bolts and wing nuts. (as shown in "Figure A")

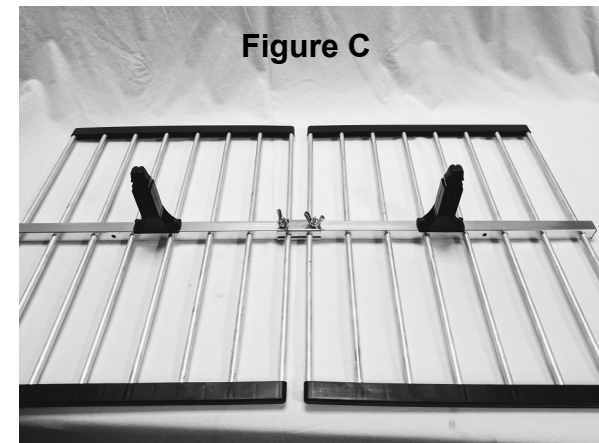


# Assembly Instructions

**Step 2:** Connect one of the reflectors utilizing bracket "A" to one of the reflectors without a bracket using the provided bolts and wing nuts. (as shown in "Figure B")  
-Repeat this step for the other set of reflectors

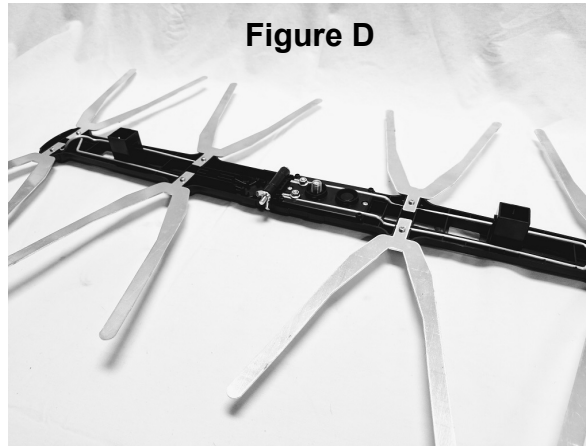


**Step 3:** Insert the stand-off connectors into the corresponding mounting location on each of the reflector assemblies. (as shown in "Figure C")

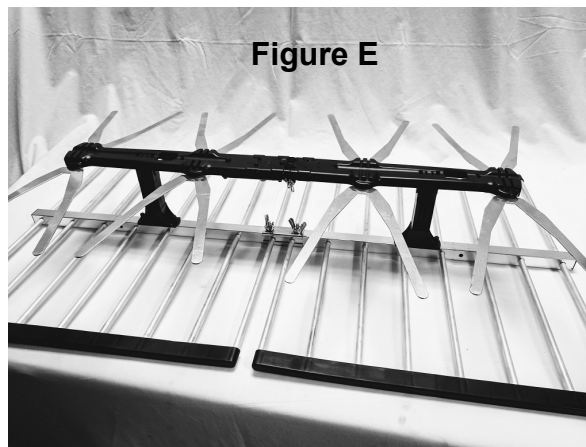


# Assembly Instructions

**Step 4:** Unfold both array assemblies and tighten using wing nut located in the center. (as shown in "Figure D")

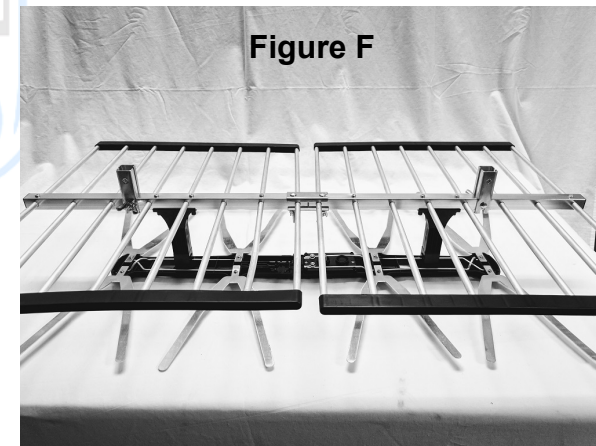


**Step 5:** Attach array and reflector assemblies together using the stand-off connectors on the reflector assemblies, and the corresponding mounting location on the array assemblies. (as shown on "Figure E")



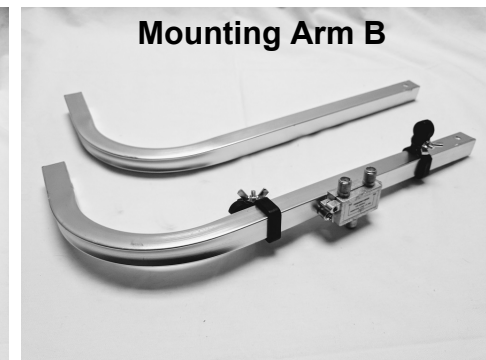
# Assembly Instructions

**Step 6:** Attach mounting brackets "B" (as pictured below) to the reflector assemblies using the provided bolts and wing nuts. (as shown in "Figure F")



**Step 7:** Attach mounting arms "A" to bracket "B" on one of the reflector assemblies using provided bolts and wing nuts. (as shown in "Figure G")

-Repeat this step for mounting arms "B" on the other reflector assembly. (as shown in "Figure H")





# Assembly Instructions

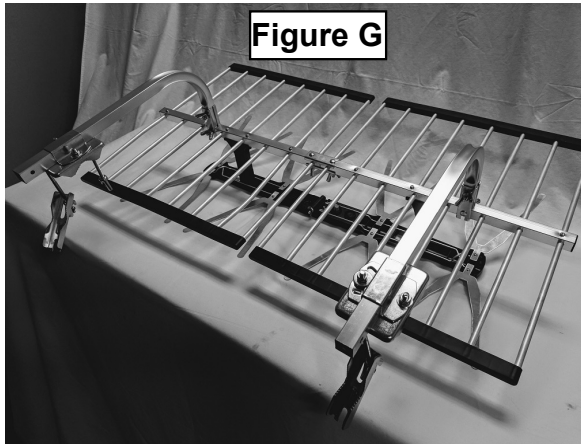


Figure G

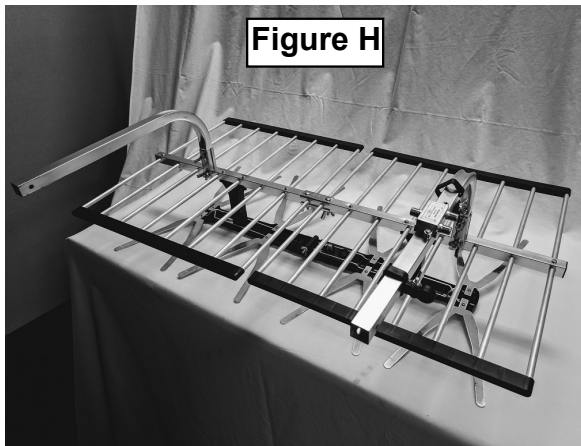


Figure H

**Step 8:** Attach the remaining mounting brackets to the end of mounting arms "B" in configuration shown in "Figure I" using provided bolts and wing nuts.

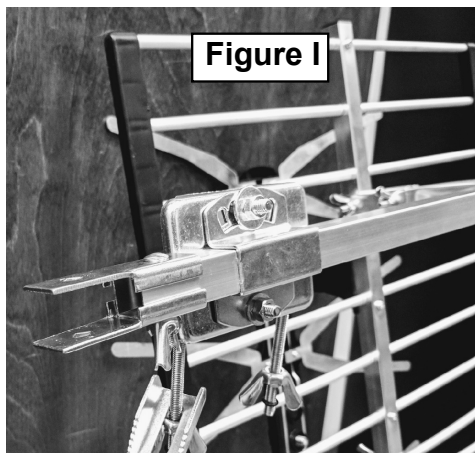


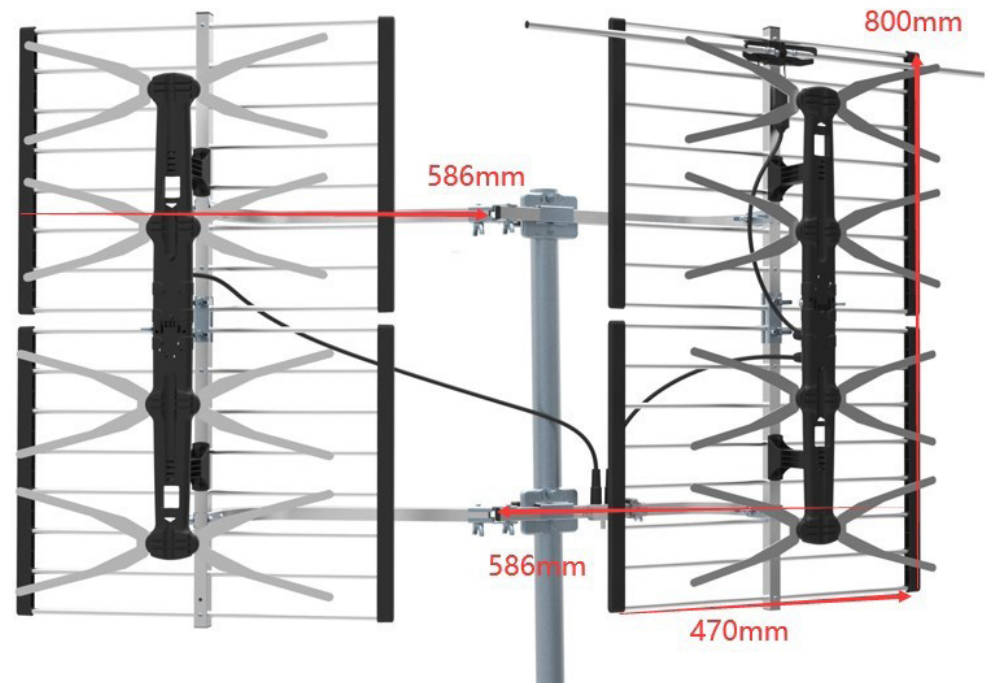
Figure I

# Assembly Instructions

**Step 9:** Using the mounting brackets on mounting arms "A", attach mounting arms "A" and "B" together using provided bolts and wing nuts.

Final assembly should resemble "Figure J"

Figure J



**Step 10:** Connect the provided coaxial cables to the F connector on the center of each array assembly.

**Step 11:** Connect the other ends of the coaxial cables to the inputs of the combiner found on mounting arm "B"

## Warranty Information

This product carries a limited 90 day warranty, which does not apply if the product has been damaged, deteriorates, malfunctions or fails from: improper installation, misuse, abuse, neglect, accident, tampering, modification of the product as originally manufactured by Stellar Labs® in any manner whatsoever, usage not aligned with product instructions or acts of nature such as damage caused by wind, lightning, ice or corrosive environments such as salt spray and acid rain. This Limited Warranty also does not apply if the product becomes unable to perform its intended function in any way as a result of the television signal provider making any changes in technology or service. Should a failure be determined covered by the warranty, it will be the sole discretion of MCM Electronics to repair or replace the product. This warranty covers the product only, and does not include any additional product or expense incurred. No liability outside the product itself is implied.

## RETURN AUTHORIZATION POLICY

A Return Material Authorization (RMA) is required prior to returning any product to Stellar Labs® under this warranty policy. Please call our Customer Service at (877) 626 3532 or send an email to [customerservice@mcmelectronics.com](mailto:customerservice@mcmelectronics.com) to obtain an RMA number. Enclose the product in a prepaid package and write the RMA number in large, clear numbers on the outside of the package. To avoid confusion or misunderstanding, a shipment(s) without an RMA number(s) or an unauthorized return(s) will be refused and returned to Customer freight collect.

## Dimensions

