

READ IT OR WATCH IT



Read instructions or watch easy-to-follow video. Scan QR code or visit <https://byjasco.com/33685i>



**YOU MUST PERFORM A
CHANNEL SCAN AFTER
INSTALLATION.**



**PLEASE REFER TO YOUR TV MANUAL FOR SCAN
INSTRUCTIONS OR CALL TV MANUFACTURER.**



**PLEASE DO NOT
RETURN TO STORE**

Questions? Contact our U.S.-based Consumer Care
at 1-800-654-8483 between 7AM-8PM CST.

**WARNING: INSTALLATION OF
THIS PRODUCT NEAR POWER
LINES IS DANGEROUS, FOR
YOUR SAFETY, FOLLOW THE
INSTALLATION DIRECTIONS.**



**WATCH FOR WIRES! YOU CAN
BE KILLED IF THIS ANTENNA
COMES NEAR ELECTRIC POWER
LINES. READ INSTRUCTIONS!**

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IMPORTANT SAFETY INSTRUCTIONS:

- **NEVER** touch ANYTHING or ANYONE in contact with a power line. You can be electrocuted. In case of an accident or emergency, call 911 immediately for help.
- **INSPECT** your installation site carefully for power lines. Make sure there is no possibility the antenna, its mounting structure or your ladder can contact power lines. Be sure to consider what can go wrong during installation.
- **KEEP** the distance between power lines and the antenna and its mounting structure at least 2 times the combined height of the antenna and mounting structure. If the antenna falls during or after assembly, there must be sufficient distance to ensure it does not contact the power lines.
- **KEEP** your ladder, antenna and its mounting structure (such as the mast pole and mount) far away from power lines at all times.
- **GROUND** the antenna and the antenna mounting structure in accordance with the NEC electrical code, all state and local electrical code requirements.
- **COMPLETE** the antenna assembly on the ground prior to mounting.
- **DO NOT** use a metal ladder or install the antenna on a windy day. If the antenna or mast starts to fall, allow it to fall. Do not attempt to catch the antenna.
- **EXERCISE** caution when working on a roof.
- **APPLY** the included danger label to the base of the antenna mounting structure.
- **INFORM** others about the danger of touching power lines or objects in contact with power lines.
- **CONTACT** a professional installer in your area to do the antenna installation if you are unsure how to safely install and ground this antenna.

SELECT AND MEASURE YOUR INSTALLATION SITE

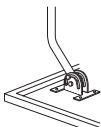
Key things to consider in choosing the antenna installation site are:

- 1) Choose a **SAFE** location far away from power lines. Keep the distance between power lines and the antenna and its mounting structure at least 2 times the combined height of the antenna and its mounting structure. Refer to the **Important Safety Instructions**.
- 2) Determine the location of the broadcast towers in your area. You need to point the small end of your antenna toward those towers. There are online resources such as www.antennaweb.org that can help you identify the location of your local broadcast towers and the channels you can expect to receive.
- 3) Check your local, city and state building and electrical codes. Make sure your planned installation is safe and in compliance with all applicable codes, rules and regulations.

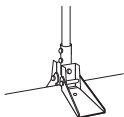
CHOOSE A MOUNT TYPE:

Some examples of common mounting options are shown below. Follow the installation instructions for the mount you will use:

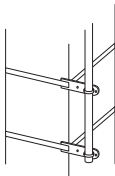
- 1) J-Mount**
(Provided)



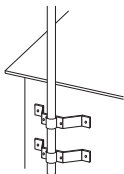
- 2) Ridge Mount**
(Not provided)



- 3) Chimney Mount**
(Not provided)



- 4) Wall Mount**
(Not provided)



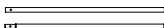
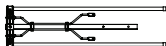
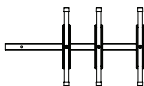
**IF YOU ARE UNSURE OR DO NOT FEEL CAPABLE
OF INSTALLING THIS ANTENNA, CONTACT
A PROFESSIONAL INSTALLER IN YOUR AREA.**

ASSEMBLY INSTRUCTIONS:

Thank you for purchasing the **Outdoor HD Antenna**. This antenna is a sturdy, high-performance antenna designed to receive UHF and VHF broadcasted signals. The small, compact design allows you to install the antenna almost anywhere on the outside of your house.

PARTS LIST:

- 1) Main Housing Unit – 1 ea.
- 2) Short UHF Elements – 2 ea.
- 3) Middle UHF Elements – 2 ea.
- 4) M3 x 25mm Bolts – 4 ea.
(pre-attached to the Main Housing Unit)
- 5) Main Boom 1 with Short Dipoles – 1 ea.
- 6) Main Boom 2 with VHF Elements – 1 ea.
- 7) Main Boom Connector Piece – 1 ea.
(pre-attached to the Main Boom 2)
- 8) UHF Elements (32.5cm) – 2 ea.
- 9) Mounting Bracket – 1 ea.
- 10) J-Mount (15/16 in or 2.5cm) – 1 ea.
- 11) U-Bolt and Clamp Assembly – 1 ea.
 - a) Brass plate – 1 ea.
 - b) Wing Nuts (#10 X 24) – 2 ea.



PARTS LIST (CONT.):

- 12) Wing Nuts (#6 X 32) – 4 ea.
(pre-attached to the Main Housing Unit)



- 13) Rubber Boot – 1 ea.



- 14) 1/4 X 2 in Lag Screws – 4 ea.



- 15) M6 X 50mm Bolts – 2 ea.



- 16) M6 Locking Nuts – 2 ea.



- 17) M6 Washers – 4 ea.



- 18) M5 X 40mm Bolt – 1 ea.



- 19) M5 Nut – 1 ea.



- 20) M4 Lock Washers – 2 ea.
(pre-attached to the Main Housing Unit)



- 21) Small Zip Tie – 1 ea.



- 22) Large Zip Tie – 2 ea.



- 23) M3 X 16mm Self-Tapping Screw – 1 ea.



- 24) Danger Label – 1 ea.



ASSEMBLING THE ANTENNA:

1) Connecting the UHF Elements

- a) Turn the **Main Housing Unit** with the bottom side facing up. (Fig. 1a)



Fig. 1a

- b) Remove the four **M3 x 25mm Bolts** from the **Main Housing Unit**. (Fig. 1b) & (Fig. 1c)



(Fig. 1b)



(Fig. 1c)

- c) Slide one of the **Short UHF Elements** into the **Main Housing Unit** from the left side. (Fig. 1d)



(Fig. 1d)

- d) Align the holes of the **Short UHF Element** with the holes of the **Main Housing Unit**, then secure with the **M3 x 25mm bolts**. (Fig. 1e)



(Fig. 1e)

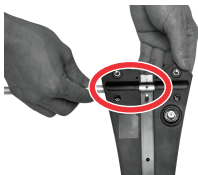
- e) Slide the other **Short UHF Element** into the **Main Housing Unit** from the right side, and secure with the **M3 x 25mm bolts**. The assembly steps are same.

- 2) Connecting the **Middle UHF Elements**. The assembly steps are same as connecting the **Short UHF Elements**.



3) Connecting the UHF Elements

- a) Turn the **Main Housing Unit** with the bottom side facing up. (Fig. 3a)



(Fig. 3a)

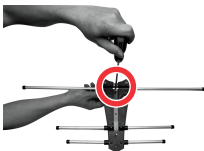
- b) Slide one of the **UHF Elements** into the **Main Housing Unit** from the left side. (Fig. 3a)
- c) Slide the other **UHF Element** into the **Main Housing Unit** from the right side into the first **UHF Element**.

(Fig. 3b) Align the holes of the **UHF Elements** with the embossed black markings in the center of the **Main Housing Unit**.



(Fig. 3b)

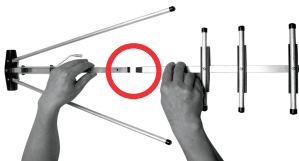
- d) Secure with the **M3 x 16mm Self-Tapping Screw**.
(Fig. 3c)



(Fig. 3c)

4) Main Boom Assembly

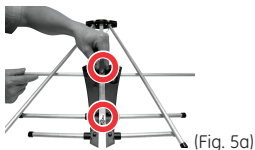
- a) Take the **Main Boom 1**, turn it with the short dipoles facing up.
- b) Take the **Main Boom 2**, turn it with the VHF connector rods marked L and R facing up, and slide the **Main Boom 2** onto the **Main Boom Connector Piece** pre-attached to the **Main Boom 1**. (Fig. 4)



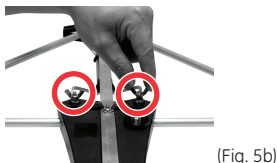
(Fig. 4)

5) Attaching the Main Boom To The Main Housing Unit

- a) Position the **Main Housing Unit** with the bottom side facing up. Remove the four **#6 X 32 Wing Nuts** and the two **M4 Lock Washers**.
- b) Lay the assembled **Main Boom** into the **Main Housing Unit**. (The **Main Boom** with the short dipoles is positioned at the narrow end of the **Main Housing Unit**)
 - i. Secure the **Main Boom** assembly to the **Main Housing Unit** using two **#6 X 32 Wing Nuts** just removed. (Fig. 5a)



- ii. Slide the two VHF connector rods marked L and R over the two bolts on the **Main Housing Unit**, then slide the **M4 Lock Washers** onto the bolts and secure with the **#6 X 32 Wing Nuts**. (Fig. 5b)



- iii. Unfold the two VHF element rods and snap into the bracket. (Fig. 5c)



(Fig. 5c)

6) Attach the Mast Clamp to the Main Boom

- a) Remove the two **#10 X 24 Wing Nuts** from the **U-Bolt and Clamp Assembly**.
- b) Attach the **Brass Plate** provided with the **"U" Bolt and Clamp Assembly** to the **Antenna Main Boom**. (Fig. 6)
- c) Slide the **U-Bolt** into the holes on the **Antenna Main Boom** from the opposite side of the **Brass Plate**. (Fig. 6)



(Fig. 6)

- e) Thread the **Wing Nuts** partially back onto the **U-Bolt**. (Fig. 6)

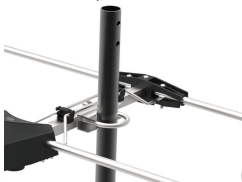
7) Installing the Assembled Antenna

- a) Locate a position on the house that is far away from power lines. Refer to the **Important Safety Instructions**.
- b) Secure the **Mounting Bracket** to the location selected for the antenna. The **1/4 X 2" Lag Screws** have been provided for some installations.
- c) Connect the **J-mount** to the **Mounting Bracket** (Fig. 5a) using the **M6 X 50mm Bolts**, **M6 Locking Nuts** and **M6 Washers**.



(Fig. 7a)

- d) Position the **J-Mount** perpendicular to the ground using a small level.
- e) Slide the **Antenna** onto the **J-Mount**. (Fig. 7b) Point the small end of the antenna in the direction of the broadcast towers in your area. Tighten the **Wing Nuts** on the **U-Bolt** when the antenna is in the desired position.



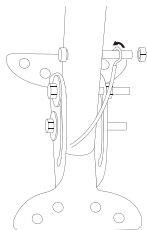
(Fig. 7b)

Antenna Grounding & Connection

The National Electric Code (NEC) requires your outdoor antenna installation to be properly grounded. This involves grounding both the antenna and the antenna mounting structure. This helps protect you and your property in the event of static build up on the antenna or lightning near your home.

Note: *If you had a satellite or cable system installed at your home, you may be able to use some of the parts from this system for your antenna installation.*

- a) **Ground the Antenna Mount:** Attach an 8 AWG aluminum or 10AWG copper grounding wire to the antenna mounting structure, for example pole, mast, tower, etc. In some cases, a bolt on the mount can be used for making this connection. When using the **J-Mount** provided, use the **M5 Bolt** and **M5 Nut** in the hole on the **J-Mount** located above the **Mounting Bracket** to make this connection. (Fig. 8a)



(Fig. 8a)

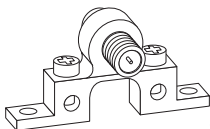
Tighten this connection securely. Ensure there is a good electrical connection between your mounting structure and grounding wire. Run the grounding wire as straight as possible and use standoff insulators spaced four (4) to six (6) feet apart. Attach the grounding wire to an acceptable building ground location.

Examples of acceptable building grounding locations are:

- The building or structure grounding electrode system as covered in 250.50 in the NEC.
- Grounded interior metal water piping system, within 5ft. from its point of entrance to the building.
- Grounded nonflexible metallic power service raceway.
- Service equipment enclosure, the grounding electrode conductor or the grounding electrode conductor metal enclosure of the power service.
- An 8ft. grounding rod driven into the ground can be used as long as it is connected to the central building ground by a 6AWG or heavier bonding wire.

Refer to the NEC sections 250 and 810 for other acceptable grounding methods.

- b) **Antenna Connection:** Connect one end of a coax cable to the antenna and the other end to a 75 ohm grounding block. Below (Fig. 8b) is an example of a 75 ohm grounding block.



(Fig. 8b)

If you make your own coax cable, slide the **Rubber Boot** over the cable before you place the connectors on the cable. Once you have attached the cable to the antenna, slide the **Rubber Boot** into the round channel on the **Main Housing Unit**.

If you are using a pre-built cable that has connectors, follow these steps.

- i. Cut 4 slits spaced evenly apart at the narrow tip of the provided **Rubber Boot** approximately 1/4in. in length. (Fig. 8c)



- ii. Run the coax cable through the narrow end of the **Rubber Boot** and attach the cable to the antenna.
- iii. Slide the **Rubber Boot** into the round channel on the **Main Housing Unit**.
- iv. Using the **Small Zip Tie**, wrap the tie around the narrow tip of the **Rubber Boot** around the four slits and pull the tie tight.

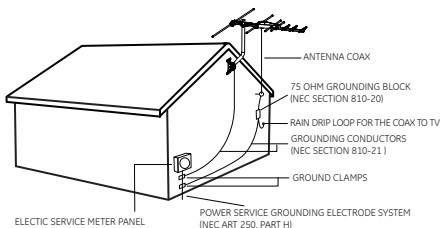
Use a second coax cable and connect one end to the mating port of the first coax cable on the 75 ohm grounding block and run the other end into your home for connecting to your TV. The 75 ohm grounding block needs to be placed as close as possible to the point where the second coax cable enters your home.

Note: *Leave enough slack in the coax cable to create a drip loop so moisture cannot enter the house. You will also need to seal the coax cable entry point into your house with an exterior caulk.*

- c) **Ground the 75 ohm Grounding Block:** Connect an 8AWG aluminum or 10AWG grounding wire to a screw terminal provided on the 75 ohm grounding block. Connect the other end of the wire to an acceptable building ground location. Refer to step a) in this section for acceptable building grounding locations.

Double check all your connections after installation is complete. Ensure there are good electrical connections of your grounding wires and coax cables. See Fig. 6d below for an example of a properly grounded antenna installation.

Example of Antenna Grounding
as per NEC - National Electrical Code



(Fig. 8d)

If you are unsure how to properly ground your antenna installation, contact a professional installer in your area.

- d) **Danger Label Application:** If your antenna mounting structure, such as a mast, J-Mount or pole, does not have a danger label, apply the label provided to the base of the mounting structure in a clearly visible location.

EASY INSTALLATION FOR HDTVs

- 1)** Connect the coax cable from the antenna to the antenna input on your HDTV.
- 2)** Follow your HDTV's instruction manual to scan for channels on your television.

EASY INSTALLATION FOR ANALOG TVS WITH SET-TOP BOX

- 1)** Connect the coax cable from the antenna to your set-top box antenna input. Then, connect another coax cable (not included) to the antenna output on the set-top box.
- 2)** Connect the other end of that cable to the antenna input on your TV.
- 3)** Follow your set-top box instruction manual to scan for channels on your set-top box.

ANTENNA REMOVAL

Inspect the area carefully for power lines. Look for any new power lines that may have been installed. Make sure there is no possibility the antenna, its mounting structure or your ladder can come in contact with power lines. Be sure to consider what can go wrong during the antenna removal. Repeat the steps for antenna installation but in reverse order.

ANTENNA HELPFUL TIPS

Maximize the number of channels you receive by aiming the antenna in different directions to see which position provides the best reception and the maximum number of channels. Be sure to run a new channel scan for each position. Refer to the instruction manual that came with your TV if you are not sure how to do this.

Visit www.antennaweb.org or www.dtv.gov and look for the DTV Reception Maps to determine the available television stations and location of the broadcast towers in your area.

FOR FURTHER ASSISTANCE, CALL 1-800-654-8483 FOR TECHNICAL SUPPORT.

MADE IN CHINA

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THIS PACKAGE IS
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