



Installation Manual

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Attention: Before you begin your installation, please follow the instructions provided on your Installation Sheet that was either mailed or emailed to you with your order receipts. Read and follow the assembly instructions provided with your satellite dish. Save the instructions for later use if need be. Follow all warnings and instructions provided with your satellite receiver.

Free Instructional Videos: www.youtube.com/idealsatellite

Retain Instructions: The safety and operating instructions should be retained for future reference.

Heed Warnings: All warnings on the product and in the operating instructions should be adhered to.

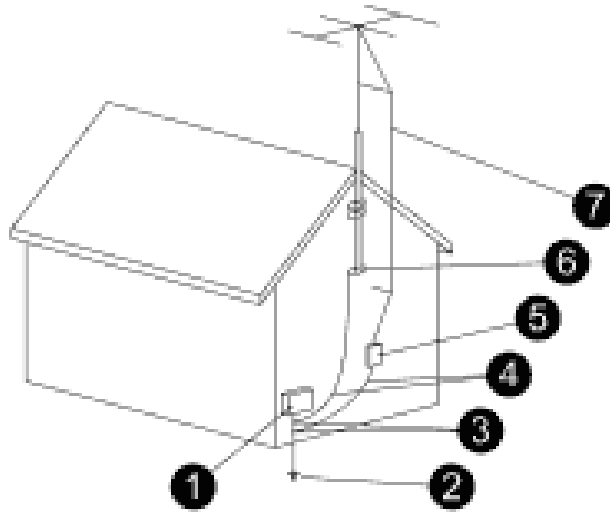
Follow Instructions: Follow all operating and usage instructions.

Cleaning: Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.

Attachments: Do not use attachments not recommended by the product manufacturer as they may cause hazards. Always use a good surge protector for your satellite receiver.

Water and Moisture: Do not use this product near water. For example, near a bath tub, wash bowl, kitchen sink, or laundry tub; in a wet basement, near a swimming pool, etc.

Always ground your satellite system: Please follow the sample of how to ground a coax line properly. Follow **National Electrical Code** and local codes.



1. Electric Service Equipment
2. Power Service Grounding Electrode System (NEC Art 250, Part H)
3. Ground Clamps
4. Grounding Conductors (NEC Section 810-21)
5. Antenna Discharge Unit (NEC Section 810-20)
6. Ground Clamp
7. Antenna Lead-in wire



Site Survey

If you feel comfortable with drilling holes in the walls and/or roof of your home, climbing ladders, attaching wires to the utility ground according to NEC and local codes and following step-by-step instructions, you might consider installing your own system.



The satellite is located over 23,000 miles away and the installation does require precise tuning and a great deal of patience to correctly install.

If you don't feel comfortable with this procedure we highly recommend hiring a professional installer. www.ftainstall.com

Before assembling any equipment it is important to verify that the installation location has a suitable area to safely and securely mount the satellite dish and have a clear line of site to receive the satellite signal. The satellite dish must be pointed directly at the satellite, with NO obstructions between the two. This means NO trees and NO buildings. Satellite signals will not pass through leaves or limbs, so consider future tree growth, house remodeling or additions and new construction in your area. Do not attempt to install the dish indoors!

Site Survey.

Look for trees or buildings that might obstruct the satellite dish from receiving a good signal.



The complex block contains a blue background with white text. On the left, there is a cartoon illustration of a green tree next to a yellow house with a satellite dish on its roof. To the right of this is a photograph of a bare tree in a snowy landscape. On the far right is a circular logo for ISS (International Satellite Service) featuring a satellite dish and the letters 'ISS' in gold.

Pay close attention to winter trees, they grow leaves in the spring.

Remember after winter, leaves will come up in the spring, and keep in mind the growth of the tree.



Where Is The Satellite Located?

The satellite will always point towards the South, Southeast or Southwest, depending on your location. The satellite is located south of Texas and Mexico directly over the equator. That means if you live in Washington D.C, you must have a clear line of sight to the Southwest sky; if you live in Los Angeles, you must have a clear line of sight to the Southeast sky.

Compass Azimuth Reading: You have been provided with an Information Sheet which indicates your Azimuth location (Magnetic), elevation and LNB skew settings. Please use the information provided to help you ensure a successful alignment. It is highly recommended that you acquire a carpenters level for your elevation settings and to assure your mast pole is perfectly plumb (vertical).



Attach a string to your mast pole and set your azimuth direction as shown.



Your Satellite Dish Mounting Options:

We recommend ground mounting the dish on a 1 5/8" heavy wall galvanized post set in cement.

Attach a bolt or muffler clamp to the bottom of the post to prevent the post from twisting in the hardened cement. These items are readily available at any hardware store. Filling the post with a wet cement mixture will provide greater rigidity. The post must be **perfectly plumb**, (Carpenters level 360 deg is highly useful here) level on all four sides. Posts standing higher than 7 feet should be stabilized to prevent movement during high winds and snow. The post should be installed in advance of the installation, as the cement can take several hours to cure.

The satellite system includes a heavy-duty universal wall / roof pole mount. This mount can be attached at almost any angle and provides a stable secure mount even in high wind regions if properly attached. If this universal post mount is used, the included tripod legs **MUST** be installed. The universal post will fail under moderate wind load if the tripod legs have not been installed to support the larger wind load area of a 32" - 36" dish. The dish and mount are designed to remain operational in winds up to 80+ mph and survive wind gusts over 110+ mph.



360 degree carpenters level with magnetic base is highly recommended.

Completing The Satellite Dish Installation: Carefully route the coax cable from the satellite dish applying a 4" drip loop from the LNBF down the LNBF pipe to the back of the dish.



Secure all cables using appropriate cable clips and nylon zip ties. Avoid using wire staples when you secure the coax cable on walls and eaves as they can dimple or penetrate the coax cable. Using wire staples can cause loss of signal or short out the coax cable!! A short on the coax cable can damage your satellite receiver. Form drip loops and cable loops as needed to prevent water from running down the cables and entering cable connection fittings or into wall penetrations.

See video: http://youtu.be/_1fdVhS9QAM

Then continue to the grounding location where you will install your ground block (See page 2).



After installing your ground block, continue to run coax cable to the location where your satellite receiver will be located. Remember to seal all exterior wall and/or roof holes with a quality sealant or silicone caulking. Install the grounding block and wire while observing all NEC, National Electrical Code and local codes.

Connect the ground wire to the structure ground. If you are unsure of how to properly ground your satellite system, please consult with a local professional. Copies of the NEC are available at your local library or online.

Important Notice: Ideal Satellite Services recommends that you DO NOT use the existing coaxial cabling that has been pre-wired by DirecTV or Dish Network or previously used for cable TV until you have inspected the coax cable for proper grounding. Make sure you remove all splitters that do not match the frequency necessary for satellite applications and remove all conventional CATV splitters inline. Make sure that RG-6 coax cable has been used, do not miss match cables (RG-6 and RG-59). Make sure that the RG-6 coax cable is directly connected from the satellite dish "LNBF" directly to the grounding block.

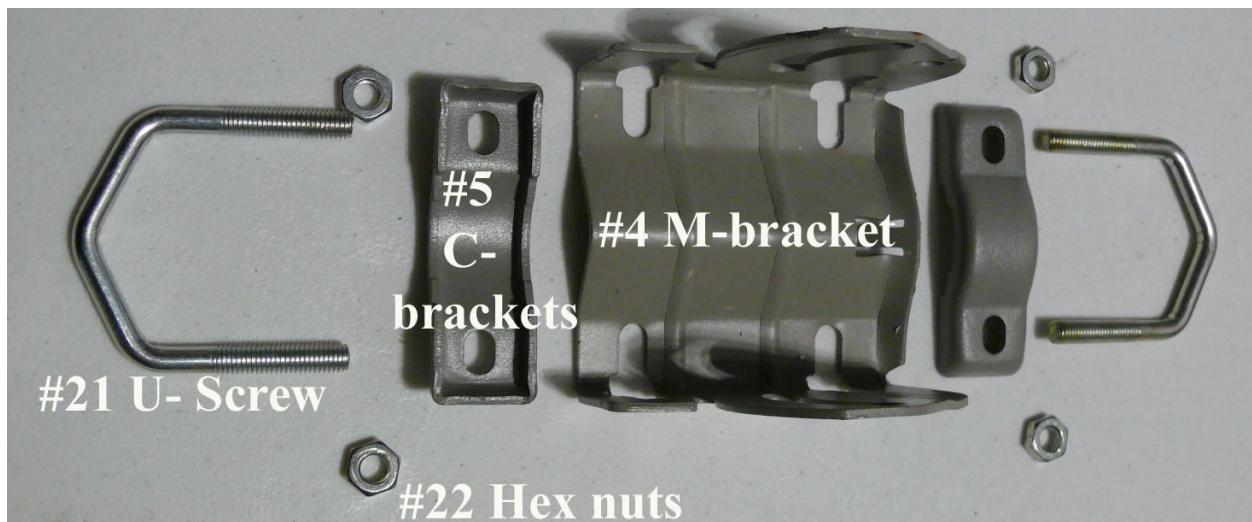
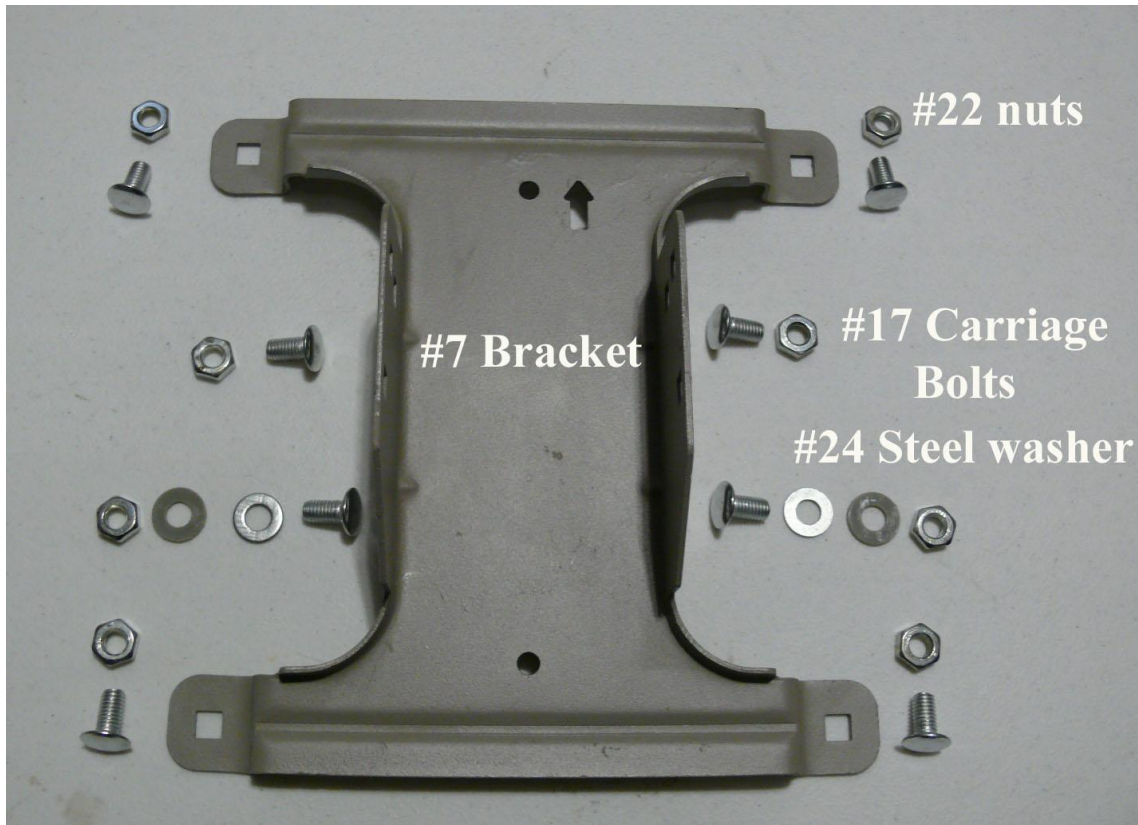
Make sure that you have a home run from the ground block to the rear of the Satellite Receiver.

Cable splitters or any other devices in the coax line may cause the satellite receiver to shut down or malfunction (this may void your warranty). Do not use any device in the coax line unless approved for satellite installation. Multiple receiver installations should always use a multiple output LNBF to avoid programming conflicts between the receivers.

Assembling your satellite dish 36" True 90CM dish:

Free video available at: <http://youtu.be/sL0OXCMeVCs>

Begin by assembling your dish mount bracket #7 and your M-Bracket #4



Notice the arrow that points to the top of the #7 bracket. This bracket will attach to the dish pointing to the top. (Towards the lettering at the top of the dish) Next step is to slide the number #4 bracket onto the #7 bracket, making sure that you use the correct pivot hole.



Picture A



Picture B

Insert a #17 carriage bolt as shown on the picture A with a # 22 nut. Repeat procedure on the other side.

Next, place a #17 carriage bolt into the slide window and add a # 24 steel washer and a #22 nut as shown below.



Repeat the process on the opposite side.

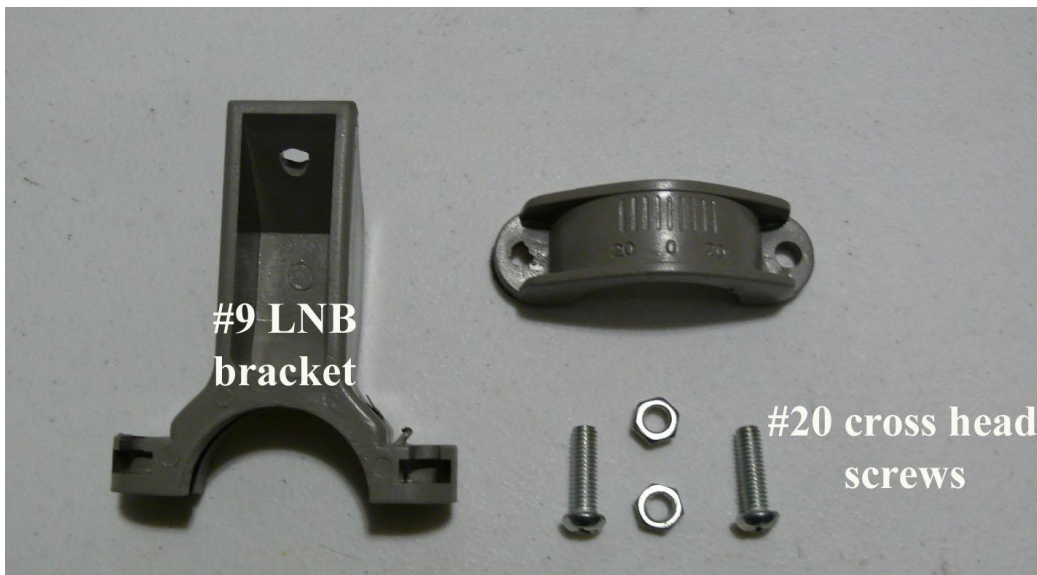
Next apply the #21 U-screws onto the #4 M-bracket as shown below.



Next, take the #5 C-bracket and slide onto the #21 U-screw bolt as shown below and apply the #22 nuts to secure the C-bracket in place. Repeat the same procedure with the U-screw on the bottom part of the #4 M-bracket.



Next, assemble the LNBF bracket.



Take the #9 LNB bracket and #20 cross head screws and nuts and place the nuts in the slide slots on the main bracket #9. Then place your LNBF provided with your system as follows. See picture below.

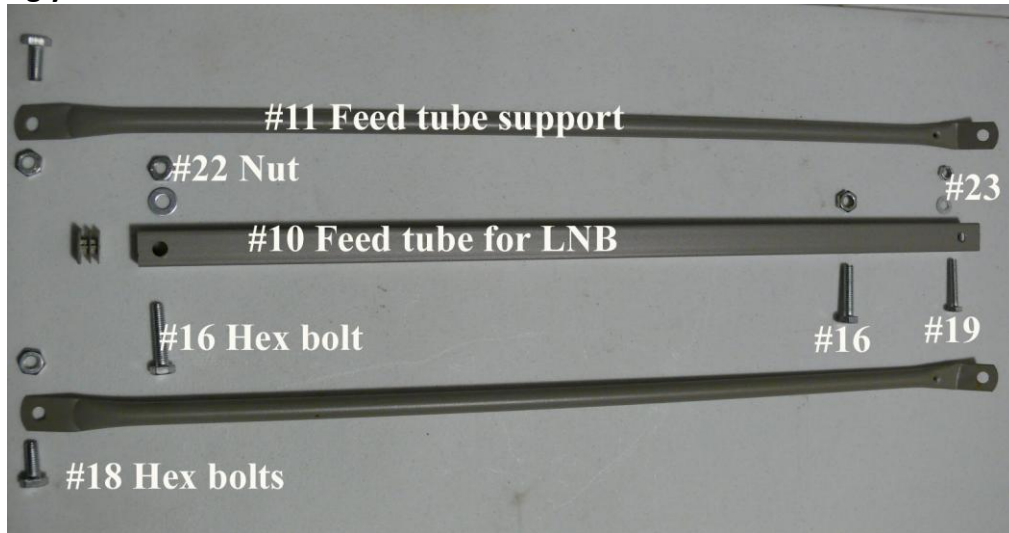


Next, place the remainder of your bracket on the top of the LNBF and start your screws into place. I suggest presetting the skew now. (Refer to you Installation Sheet provided to you via email or mail)



Top of the view.



Assembling your LNBF Feed Tube:

Take the #10 Feed tube, the # 19 Hex screw, and #23 nut, and assemble the #9 LNB bracket together as shown below. Make sure that the Feed tube goes inside of the #9 LNB bracket **"NOT ON TOP"**



Next, assemble the #11 feed supports to the #10 LNB feed tube. Make sure that you use the shorter tabs on the #11 supports. You will require the #16 hex screw and #22 nut. The longer tabs will attach to the dish later.



See the picture for the proper assembly.

Attaching the #7 bracket to your dish #8.

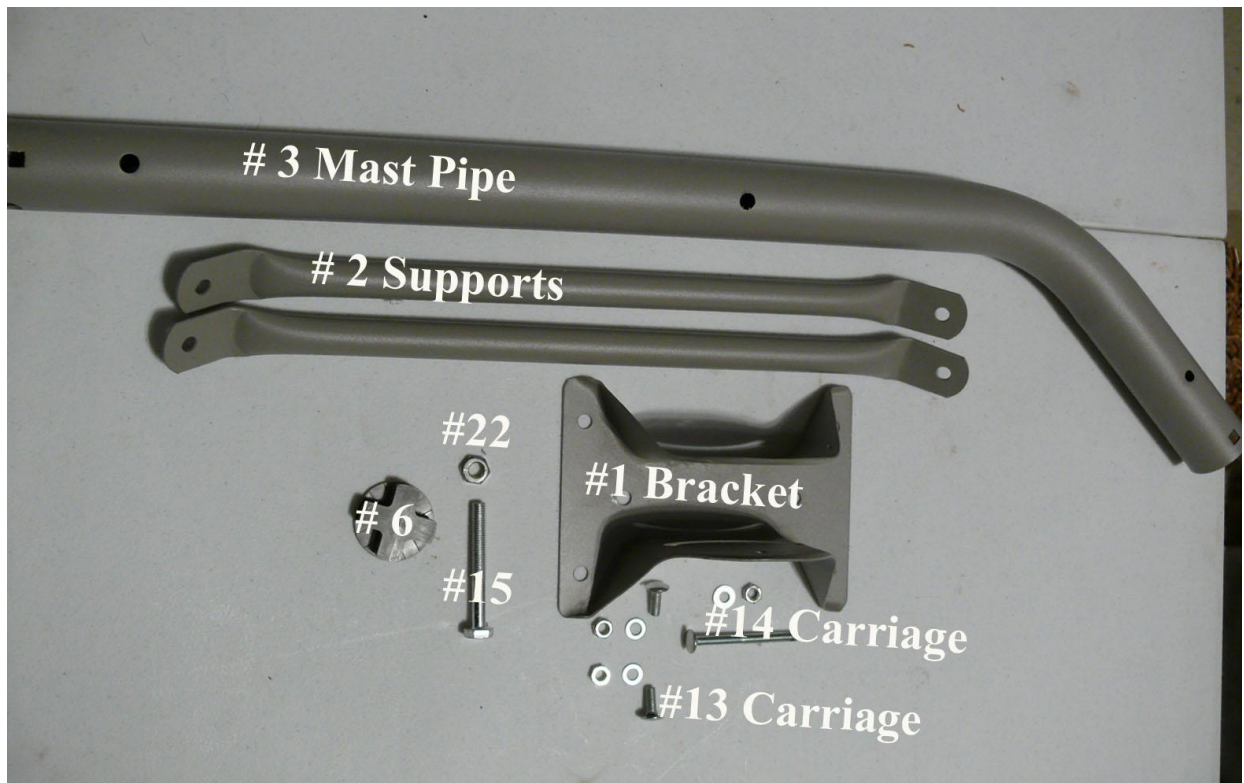
For this step you will need 4 ea of the # 22 nuts and 4 ea. of the #17 carriage bolts. Take your #7 bracket and place the bracket with the arrow pointing to the top of your satellite dish #8 (Letters are at the top)



Then proceed to install all 4 bolts and nuts. Never over tighten your bolts and nuts. Now that we have installed the #7 bracket to the #8 dish we will proceed to install the #10 feed tube for the LNB to the #8 dish. For this you will require the #10 feed tube, 1 ea. #16 Hex screw, a #22 nut and the plastic square tube cap. Your #10 feed tube will attach at the bottom of your #8 dish, I always place the bolt going into the dish. Then I place the #22 nut in the inside of the #8 dish. Now your #11 feed support tubes will attach to the sides of the #8 dish (the long tabs will attach to the sides of the #8 dish) using the same technique of placing the #18 bolts from the outside in. Then screw in the #22 nuts to either side. If you keep the bolts facing in to the dish you will not catch on anything of the exterior of the dish during the installation or any other time.



Attention: When you use the carpenter's level to find your elevation, deduct 16 degrees from your total elevation. Example: (This is only a math sample do not use this to set your dish). 46 deg elevation minus 16 deg equals 30 degs. In this sample I would set the dish as shown (above right) to 30 deg elevation.

Assembling the mast pole.

Take your #1 bracket and the #3 mast pipe along with the #14 carriage bolt and #17 nut and washer to attach the long end of the #3 mast pipe to the #1 bracket.



Pay close attention to the #14 carriage bolt. Square shape fits on the square shape cut out of the #1 bracket.

Next, you will use the # 13 carriage bolts and insert them from the inside of the #3 mast pipe through to the #1 brackets slider cut out. Use a washer and a #23 nut.



Now repeat the same procedure on the other side of the bracket.

Next, place the #2 supports onto the #3 mast pipe using a #15 hex screw and a #22 nut as shown below.



If you are installing your satellite system where you had an existing commercial dish, always remove the old mast pole and install your new mast assembly. This mast pole assembly has been designed to support your satellite dish properly.

