

# Satellite Antenna with Tripod

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**DO NOT RETURN ANTENNA TO PLACE OF PURCHASE.**

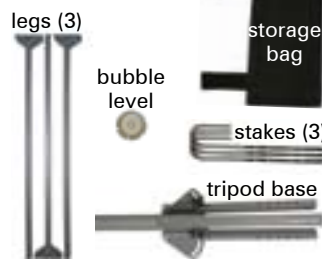


This manual provides instructions for both assembling and disassembling your tripod mount with home digital satellite antenna. To set up your tripod mount with satellite antenna, begin with assembling the tripod. The tripod requires only a one-time assembly and can be stored between uses. See page 6 for more information on storage and disassembly.

## Assembling the Tripod



### Parts



**1** Find a place to set up the tripod with a clear view of the southern sky. Avoid obstructions such as trees, hills, or buildings—these can block the signal from the satellite.

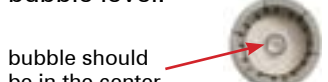
**2** Push in the tabs on either side of one leg, and slide the leg into the tripod base until the leg locks into the desired position. Repeat for all three legs.



**3** Place the bubble level on top of the tripod, and push down until the level snaps into place. Loosen the lock knobs on the tripod base.



**4** Slide legs toward or away from the base until the bubble rests in the center of the bubble level. The tripod is now level. Tighten the lock knobs, and remove the bubble level.




**5** For extra stability, insert the stakes into the holes on the pivot feet of the legs, and push the stakes into the ground. Check that the tripod is still level.



After assembling the tripod, follow the instructions to assemble the satellite antenna. If the satellite antenna is already assembled but is being set up at a new location, turn to page 3, and follow the instructions for DISH® receiver setup.

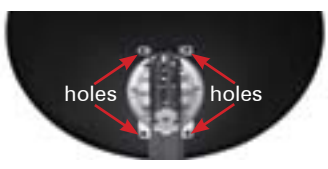
## Assembling the Satellite Dish

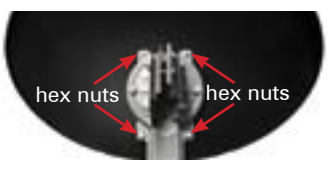



**Parts**

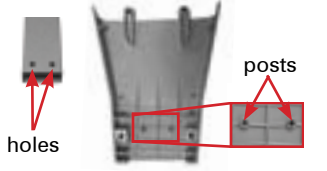
- integrated adapter bracket (IAB)
- satellite reflector
- LNBF
- support assembly
- LNBF arm
- IAB screw (2)
- mast clamp bolt (2)
- carriage bolt (4)
- flange hex nut (6)
- IAB hex nut (2)
- extra IAB screw
- 50' RG-6 coaxial cable

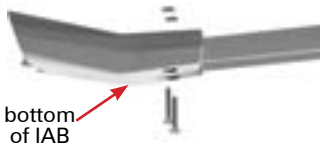
- 1** Line up the four holes on the back of the reflector with the four holes on the support assembly.

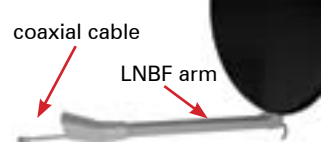

- 2** Insert a carriage bolt into each of the four holes on the front of the reflector. Thread a flange hex nut on each bolt.



- 3** Pull apart the IAB. Place the top of the IAB, which slants upwards, and the bottom of the IAB onto the LNBF arm.



- 4** Check that the two posts on the bottom of the IAB have been inserted into the two holes in the LNBF arm.

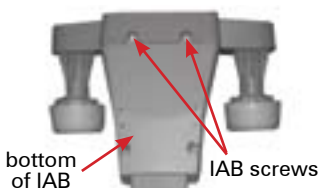

- 5** Insert the two IAB bolts through the two holes on the bottom of the IAB and through the feed arm. Thread one IAB hex nut on each bolt.

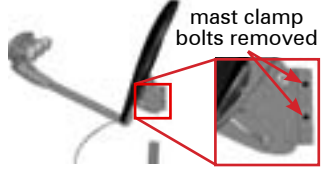

- 6** Feed the RG-6 coaxial cable through the LNBF arm of the support assembly.


- 7** Screw the RG-6 coaxial cable onto an available LNBF Output Port.


- 8** Connect the LNBF and the IAB by pushing the parts together.


- 9** Thread the two IAB screws through the holes on the bottom of the IAB and through the LNBF.


- 10** Remove the mast clamp bolts, and slide the unit onto the tripod mast. Re-insert the mast clamp bolts, and tighten.


- 11** Continue with the DISH Receiver Setup instructions. Tighten all hex nuts after pointing the dish.

## Connecting to the Receiver

The RG-6 coaxial cable now runs through the LNBF arm of the satellite antenna. Items such as splitters, video switches, and wall plates will stop the satellite signal.

For this reason, connect the coaxial cable directly from the satellite antenna to the "Satellite In" port on the back of the satellite receiver.

Then, follow the instructions on the next page to set up the DISH receiver.



"Satellite In" port

## DISH Receiver Setup

DISH receivers will often not show when they are on signal if they have incorrect "Check Switch" information. For this reason, DISH users must clear current settings before pointing. To do this for most DISH receivers, follow these steps.

The following instructions are based on a ViP® 211 receiver. Note that if this is the first time using the receiver, the receiver may automatically jump to step 4 of the instructions below.

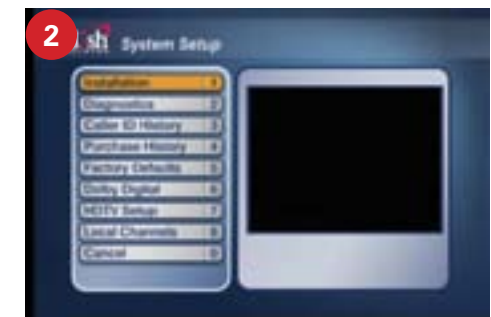
If your receiver differs from the options shown, you may need to consult your receiver manual. The wording and display used in your receiver may differ slightly.

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**1** Before starting, disconnect coax from "Sat in" on back of receiver.

Press **Menu** on your remote. Select option 6, **System Setup**.



**2** Select option 1, **Installation**.



**3** Select option 1, **Point Dish**.



**4** Select **Check Switch**.

If this is the first time using your receiver, your receiver may automatically start with this step.



**5** Check that there are no checkmarks by SuperDISH or Alternate. Select **Test**.

**Continue with step 6 on the next page. →**



The receiver will go through a number of steps and then may warn that fewer satellites were detected. If so, select **Save**. It may ask you to confirm. If so, select **Save** again.



This should clear out any previously installed devices. Then, select **Done**.  
**Re-connect the coaxial cable** to the "Satellite In" port on the back of the receiver.



- 1) In the first column, input **zip code of current location**. **Note that whenever you move the satellite antenna to a new location, you must enter the zip code of your new current location.**
- 2) In the second column, choose **Dish 500**. With this option selected, use the angles on the screen as a starting point for pointing your satellite dish. The actual angles for pointing your dish will be slightly different than those shown on screen; make small adjustments until getting the signal as high as possible.
- 3) In the third column, use **Transponder 11** for Satellite 119.
- 4) In the fourth column, the satellite should be whatever satellite you want to point at. **Satellite 119** is the primary satellite, and the majority of programming is located here. Satellite 119 should be used for initial aiming.

*Note: If using a 311 or previous model receiver, select Peak Angles to enter your satellite and zip code.* With all information entered, an azimuth, elevation, and skew angle will be displayed under the four columns. Record these angles. Now, follow the instructions below to point the dish using the azimuth, elevation, and skew angles. **Continue with step 9 of receiver setup after successfully pointing the dish.**

**IMPORTANT NOTE:** The most accurate way to determine the look angles for a location is to refer to the Pointing Angles Chart located in the back pages of the Installation Guide for the DISH 1000.2 antenna, which is included with this satellite system.

## Pointing the Satellite Dish

### Elevation

Loosen the elevation bolts on either side of the elevation and skew bracket. Raise the dish to the specified elevation angle that you found in step 8 of the receiver set-up. The red line on the elevation and skew bracket should line up with the correct angle stamped into the support assembly.

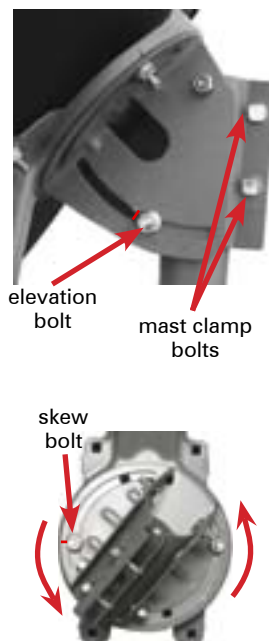
After raising the dish to the correct elevation angle, tighten the nuts on the elevation bolts. Refer to the instructions on the next page if having trouble finding a satellite.

### Azimuth

Loosen the mast clamp nuts. Standing directly behind (but not too close to) the unit, align the compass so that it points towards North. Refer to the specified angle that you found in step 8 of the receiver set-up. Adjust the unit so that it points in the general direction of the specified angle. Then, slowly rotate the dish 1° at a time, pausing for a few seconds to monitor the signal strength before moving again. Repeat until finding the strongest signal. Tighten the mast clamp nuts.

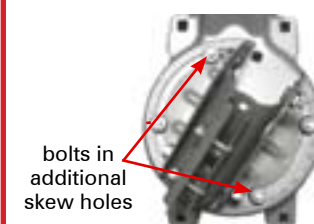
### Skew

Loosen the skew bolts. Rotate the elevation and skew bracket until the red mark, shown beside the skew bolt, lines up with the specified skew angle. Tighten the skew nuts. If the skew angle is above 110° or below 70°, follow the instructions on the next page for adding skew bolts for skew angles above 110° or below 70°.



## Adding Skew Bolts for Skew Angles above 110° or below 70°

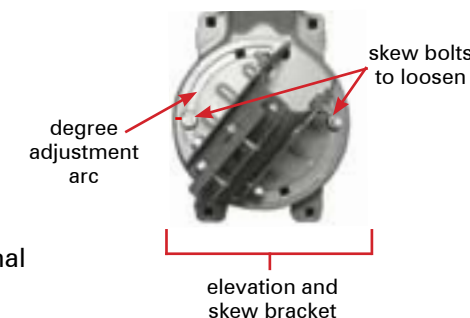
If the skew angle of your DISH satellite antenna is above 110° or below 70°, loosen the two skew bolts on the elevation and skew bracket. See image to the right.



Then, rotate the elevation and skew bracket until the red mark on the bracket lines up with the desired skew angle.

Two additional skew holes should now be visible in the degree adjustment arc.

Insert two carriage bolts into the two additional skew holes. See image to the left. Thread a flange hex nut onto each bolt, and tighten.



**If you do not come across a satellite on your first attempt at pointing**, you may need to change the elevation angle up or down a couple of degrees. Continue to make slow scans of the sky until you locate the satellite. Once you find the satellite, make slight adjustments to both the elevation and azimuth to get the signal as strong as possible. A Winegard satellite compass (SC2000 sold separately) can help with this step.

SC 2000



Sold Separately

After making adjustments so that the signal is as strong as possible, tighten the azimuth nuts to prevent the satellite dish from rotating. Keep in mind that buildings, vehicles, people, trees and various other obstructions can weaken or block the signal from the satellite.

**After successfully pointing the dish, continue with step 9 of receiver setup.**

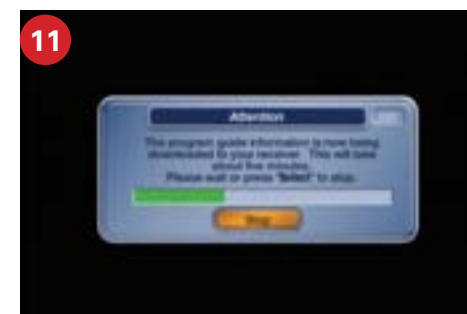


Once accurately pointed, the signal meter will turn green. Make small adjustments to **get the signal as high as possible**. Check that the bar at the bottom of the screen is green and that the satellite displayed is the desired satellite.



Now return to steps 4 and 5 to run another Check Switch test. The result should be what is shown here.

If you are missing any satellites or have low signal on a satellite, the dish will need to be adjusted.



Press **Cancel** four times to exit the receiver menu.

The receiver set-up is now complete.

As the receiver is acquiring signal, it will complete a number of steps and then will download your new program guide.

**You are now ready to watch TV!**

Whenever moving the unit to a new location, the tripod should be stored according to the instructions below. Then, the satellite antenna should be disassembled in a careful manner so as to prevent damaging or losing any parts.

### Storing the Tripod

- Remove the satellite antenna from the top of the tripod mast.
- Loosen the three lock knobs on the tripod base, and collapse the legs into the folded position, shown here.
- Push in the tabs on either side of a leg, and slide the leg toward the tripod base until the leg locks into the storage position. Repeat for each leg.
- Tighten the three lock knobs. The tripod is now in the storage position. Place additional parts in the storage bag attached to the tripod leg, and store.

### Disassembling the Satellite Dish

- Work carefully while disassembling so that parts are not damaged or lost. After all parts are disassembled, store the parts in a safe place. This way, the satellite dish can easily be reassembled at another time or location.
- Remove the mast clamp bolts, and slide the unit up and off of the tripod mast. Then, re-insert and tighten the bolts.
- Unscrew the two IAB screws on the bottom of the IAB. Pull apart the LNBF and IAB.
- Unscrew the RG-6 coaxial cable from the LNBF port. Working from the back of the LNBF arm, pull the coaxial cable out of the LNBF arm.
- Loosen the two IAB hex nuts on the top of the IAB. Remove the two IAB bolts and the two IAB hex nuts.
- Pull apart the IAB so that the two parts are no longer attached to the LNBF arm.
- Remove the four hex nuts on the back of the support assembly, and remove the four carriage bolts.
- If two carriage bolts were added to the two additional skew holes, loosen and remove the two carriage bolts and the two hex nuts.

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If a defect in material or workmanship is discovered, Customer may take the product to an authorized Winegard dealer for service. Customer must provide proof of purchase to verify the product is under warranty. If the product is brought to an authorized Winegard dealer for service prior to expiration of year one (1) of the warranty period and a defect in material or workmanship is verified by Winegard Technical Services, Winegard Company will cover the Winegard dealer's labor charges for warranty service. The Winegard dealer must contact Winegard Technical Services in advance for pre-approval of the service. Approval of the service is at the sole discretion of Winegard Company.

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