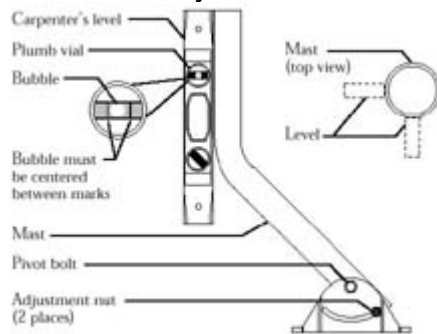


# Setting Up Your Dish

1. Select a flat and secure site to install the antenna base plate. We find that using an 18" square 3/8" or 1/2" plywood is excellent for assuring you have a level operating surface.
2. Place the base plate so the outside holes are positioned over the brick surfaces. Do not drill into the mortar between the bricks.
3. Using a carpenters level, plumb the antenna mast in at least two different locations on the side of the mast, as shown in diagram at right. These two measurements should be at right angles to each other. If the mast is plumb (aligned vertically with the bubble level), go to step 5. Otherwise, loosen the adjustment nuts.
4. Rotate the mast until it is plumb with the level, then use the torque wrench to tighten the adjustment nuts to 15 ft-lbs. If you are still unable to align the mast with the level, try using wooden shims. If they do not correct the problem, you will need to find another site to install the antenna.

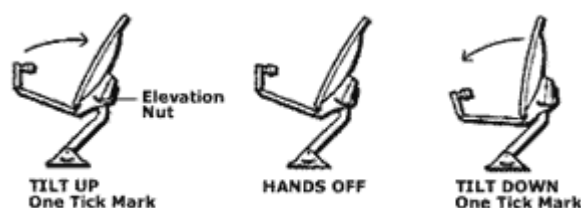
*Be sure to follow the safety precautions and warnings contained in the installation and operation manuals for your system.*

1. Make sure where ever you mount the mast (see illustrations below) that it's plumb with the



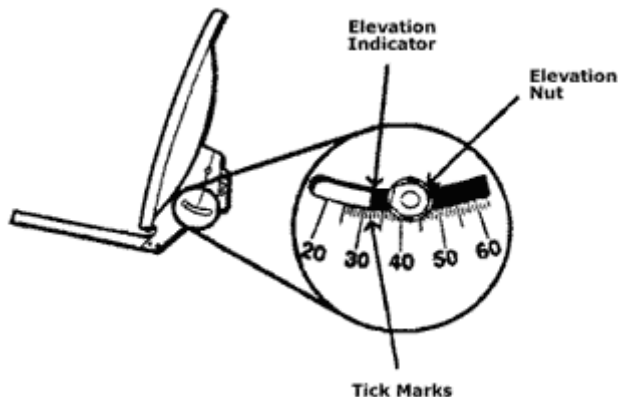
2. Realize that from the dish to the receiver your wire must **not** have any splitters in the way. It should be one solid line unless you're putting a grounding block on the side of your house.
3. A clear line of sight is a must. These are reflective dishes, so it's easier to get over objects than under, for example, tree leaves. Once setup is complete and you are ready to find the Satellite, follow these easy steps.

**a** . Pull up the signal meter screen through the main menu on your receiver. You'll need this to find the setting for the dish and to see when you hit the Satellite.



### c . Setting the Elevation (UP), (DOWN)

You can set the proper elevation after the dish is securely mounted. First, loosen the nuts securing the two elevation bolts so that the dish easily moves up and down. Line up the elevation indicator with the tick mark corresponding to your elevation number. Then tighten the bolts. Be sure to stop 5 to 10 seconds between each movement so that the receiver has time to catch the signal.



d . If you hit any number besides 0 on the signal meter screen of the TV, you are on the Satellite and you just need to fine tune the signal with small movements up and down, left and right, or both. If you fail to find the Satellite on the first pass, move the setting on the dish up to a four-point variance on the settings. Example: If it said 32 on the elevation calculator you could go from 30-34 on the settings

### e . Setting the Azimuth (LEFT), (RIGHT)

Loosen the azimuth nuts on the LNB arm enough that the dish can be turned smoothly with little pressure. Set the azimuth by moving the dish left and right. Point the dish in the general direction of the satellite, in the southern hemisphere. By using a compass you can better pinpoint the direction with your azimuth number to correspond with the degrees on your compass. Now that you have moved the dish down or up a mark, go back from 2 O'clock to 1 O'clock moving again only 1/4 movements and stopping in between moves.

f . Repeat steps C, E, and F until you find the Satellite.

4. You must be in the green signal levels on the Viewsat signal meter to acquire steady programming.

### 5. Acquiring the Signal

Now your dish will be in position to lock in on the satellite signal. You'll need to 1) have your FTA receiver connected to your television, with both turned on, and 2) have your antenna to receiver cables connected, and 3) be viewing your Setup Antenna/Signal Strength display from your Viewsat Antenna Set Up on-screen menu to measure the signal strength accurately.

Ask a helper to watch the Signal Strength screen for indications you are receiving the signal.

Stand behind the dish, and holding its outer edges, **slowly** turn it a little to the right to adjust the azimuth. Pause a few seconds, giving the receiver enough time to lock in on the satellite signal. Continue turning the dish in this way until you have acquired the signal or until you have rotated the dish approximately 15 degrees from the starting point.

If you haven't detected a signal yet, return to the starting point and move the dish to the left again. If you don't acquire the signal after rotating the dish approximately 15 degrees to either side of the calculated azimuth angle, loosen the elevation bolts and tilt the dish upward so the elevation indicator moves halfway from the current tick mark to the next mark. Then tighten the elevation bolts.

If necessary, continue changing the elevation in half-tick-mark increments until you receive the signal. After tilting the dish upwards three tick marks beyond the original tick mark, return it to the original tick mark and then tilt it down a half tick mark. Keep repeating this until you receive the signal.

You will never see 100, but high 70's to low 80's will give you enough variance for wind, snow and rain fade.

### **Fine Tuning**

Now that you have received the satellite signal, it is important to fine tune the dish pointing to make sure you have the maximum possible signal strength. Maximizing the signal is important, in that, it reduces "rain fade" during inclement weather. Loosen the elevation bolts, then gently continue turning the dish a little in the same direction you were turning it when you began to receive the satellite signal. Pause for a few seconds each time after moving the dish. Turn the dish in this way until the signal strength reaches its highest reading and then begins to fall. Then slowly turn the dish the opposite way until you again receive the highest reading on the Signal Strength screen. *Important: The Signal Strength reading does not need to be "100." Lock in on the highest possible signal.* Tighten the azimuth bolts.

Loosen the elevation bolts. Slowly tilt the dish up and down to improve the Signal Strength reading. When you are satisfied that you have the strongest signal, tighten the elevation bolts.

Congratulations!! You have completed the perfect install !!