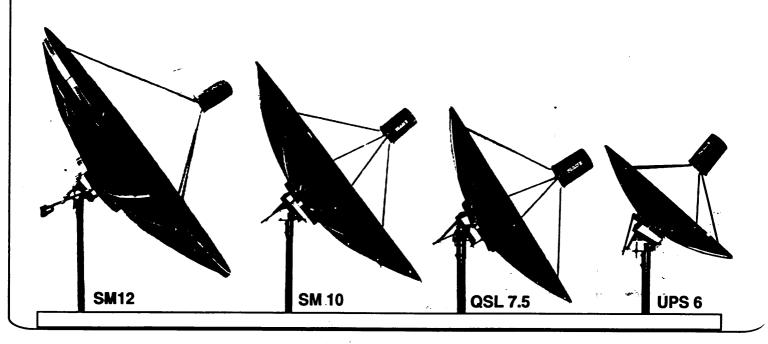


Superior Antenna Manufacturing Inc. Antenna Installation Manual

This manual covers ALL 12ft, 10ft, 7.5ft, and 6ft sectional models





STEP ONE:

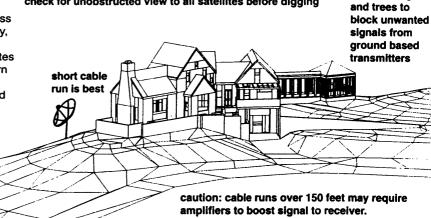
A successful installation begins with a site survey. In this process a good decision about where to install the antenna is top priority, along with planning the wire run etc. Locate the antenna close to the house with an unobstructed view of the sky where satellites are located. This is an arc with its apex at true south (in northern hemisphere) and ends at each horizon (east-west). Use trees and buildings to block any interfering signals from ground based microwave towers.

STEP TWO:

Set mount pipe in cement. The mount pipe (not supplied) should be 3 1/2 inches in diameter (outside) and long enough to extend from the bottom of the hole to 1/2 the diameter of the dish above ground. For example a 10 foot dish should be mounted on a pipe that is 7 feet long, with 2 feet of the pipe set in cement.

Footing hole size can vary with dish size, soil type, wind load, and

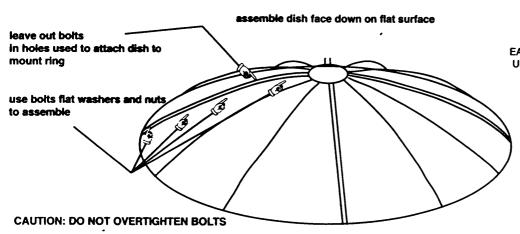
weather conditions. For example a 10 foot dish in standard soil should use a footing about 8" in diameter and 24 inches deep. In areas where frost is a problem the footing must be extended to 18 inches below the frost line to prevent frost heave. In areas with soft, sandy soil a much deeper footing is also required.



check for unobstructed view to all satellites before digging

STEP THREE:

Assemble the antenna face down on a flat surface. Place pre-assembled mount on mount pipe, and attach antenna to mount as shown in photos.

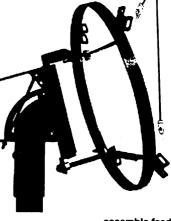


SOME MOUNTS PIVOT OFF CENTER FOR BETTER AIMING RESOLUTION.

use buildings



double ribs fit into and are bolted to clips use flat washers and tighten until clips contact ribs. CAUTION: do not overtighten



use flat washers

STEP FOUR

Feed system assembly and adjustment is next. Measure focal length from center of front plate to 1/4 inch inside feed opening.

CAUTION: Do not touch probe inside feed

attach black plastic feed cover mounting plate to bolts after legs are attached to feed, focal length is set and nuts are tight. Use flat washer and second nut to fasten

set F/D ratio on feed follow instructions provided by feed manufacturer

DISH SIZE 12 FOOT	FOCAL LENGTH 57 5/8 INCHES	F/D RATIO
10 FOOT	45 5/8 INCHES	.38
7.5 FOOT	33 3/4 INCHES	.375
6 FOOT	26 1/4 INCHES	.375

assemble feed system attach feed legs to reflector attach to feed leas include base for feed cover

> set focal length measure from center of front plate to 1/4" inside feed opening

adjust feed to aim at center of reflector

SPECIAL NOTE:

Before attempting to track the satellite arc, be sure to have a television, and satellite receiver set up next to the dish. This will allow you so see exactly how strong the signal is while making adjustments. It is not recommended to have someone else looking at the TV and telling you how strong the signal is.

STEP SIX:

Tracking the arc.
Align the polar mount with
north/south. Adjust the dish
to the apex of the arc (looking south).

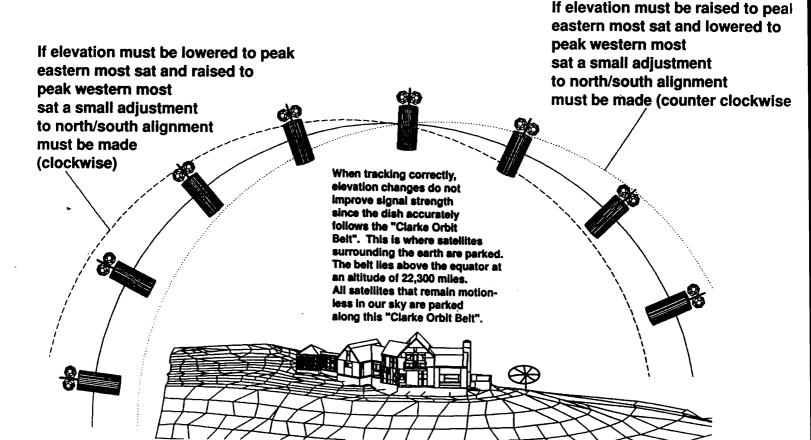
With the satellite receiver and television connected and easily viewable from the dish, and with the polar mount aligned with north/south, and with the polar mount elevation/declination pre-adjusted, begin to look for your first satellite signal. You should first look for the satellite closest to south of your location. Once you find a satellite peak the signal by making small adjustments to polar mount elevation.

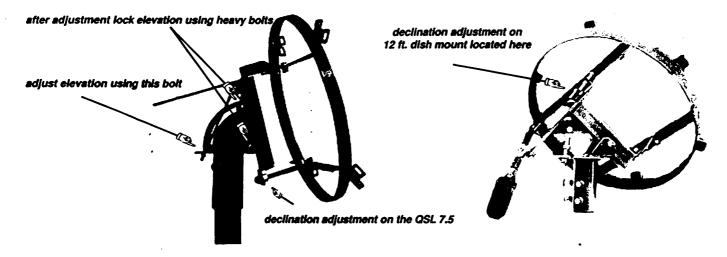
Next, use the actuator to find the satellite at the extreme east or west (if you are in the east look for the western most satellite, if you are in the west look for the eastern most satellite). No adjustment to elevation should be made at this point. Adjust north/south alignment to peak signal level. This procedure will fine tune north/south alignment. This procedure should be used until the satellite located at the apex of the arc and the satellite at the extreme end of the arc are both peaked and the dish can move between them using only the actuator.

Now you are ready to check declination. If the satellite at the apex of the arc, and the extreme east or west satellite is peaked, but small elevation changes are needed to peak the satellites in between, then an adjustment to declination is indicated. Usually, if you have correctly pre-set the elevation and declination at the beginning of this procedure, no adjustment to declination should be needed. However, if you need to make this adjustment, you should understand that if you change declination, an elevation change will also be needed.

Shown below is a drawing to help you visualize what is going on when performing this procedure.

adjust declination using this bolt adjust north/south alignment by rotating mount on pipe





STEP SEVEN:

Once you have the dish tracking the arc correctly, carefully tighten all hardware. Pay special attention when tightening mount cap bolts to be sure the mount cap does not move while tightening these bolts. Install feed cover, and connect wires that lead into house. This completes the antenna installation procedure and leads to programming the receiver. Use extreme caution when programming east/west limits since the dish can cam over and break the actuator if it is overextended.



Superior Antenna Manufacturing Inc

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Limited Warranty

SAMI provides a one year warranty on your new aluminum antenna. This Warranty covers only those defects in material or workmanship that might affect performance of the antenna and excludes cosmetic defects and paint. This warranty is valid only when the antenna dish is installed on the SAMI mount designed for that particular antenna. Antennas will be repaired or replaced, at our option, when returned to the manufacturing plant of SAMI located in Judsonia Arkansas, freight prepaid, together with proof of purchase.

This warranty is void if in the opinion of SAMI the antenna has been subjected to damage, abuse, misuse, improper handling, improper installation, or modification. This warranty is in lieu of all other warranties expressed or implied.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

LIMITED WARRANTY REGISTRATION CARD

Please clip and mail to SAMI at the above address

Customer Name Address City/State/Zip Phone Date of Purchase

Dealer Name Dealer Phone Number

