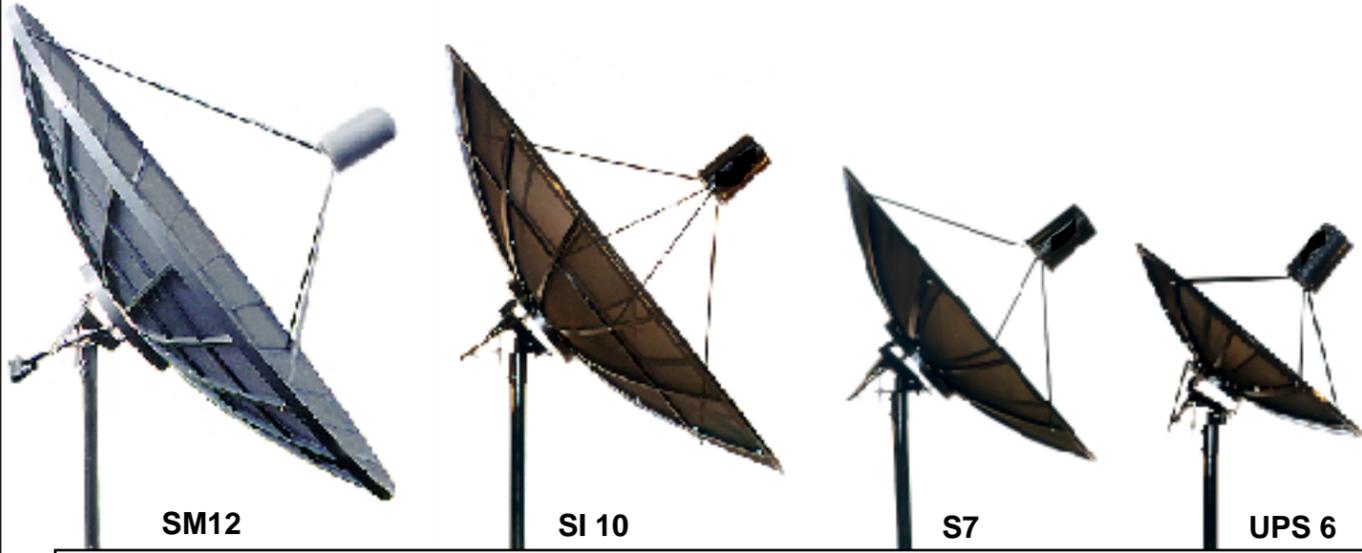


KTI/SAMI

Antenna Installation Manual

This manual covers 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.

check for unobstructed view to all satellites before digging

use buildings and trees to block unwanted signals from ground based transmitters

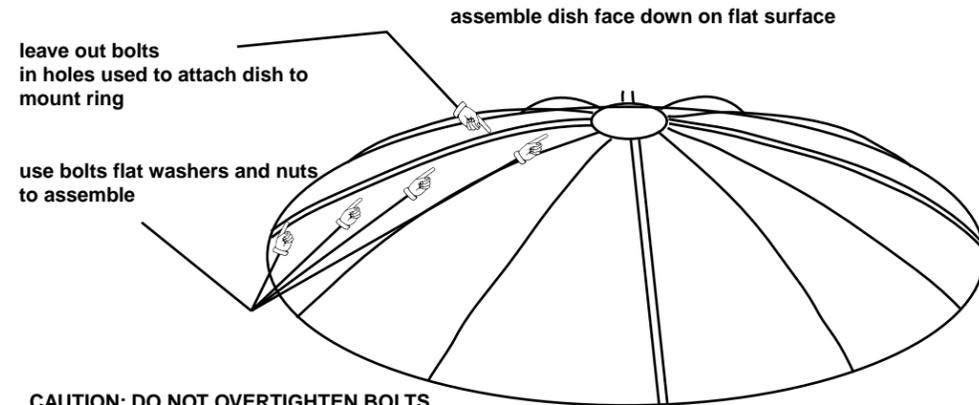


STEP TWO:

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 6 1/2 feet long, with 1 1/2 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 18 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.

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 photo's.



SOME MOUNTS PIVOT OFF CENTER FOR BETTER AIMING RESOLUTION.



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

STEP FIVE:

SET POLAR MOUNT ELEVATION ANGLE EQUAL TO SITE LATITUDE IN DEGREES AS MEASURED BY ANGLE FINDER HERE

PLACE ANGLE FINDER ON BACK PLATE OF DISH AND SET DECLINATION ANGLE EQUAL TO APEX ELEVATION AS MEASURED BY ANGLE FINDER

USE THIS BOLT TO MAKE ADJUSTMENT

USE THIS BOLT TO MAKE ADJUSTMENT

CAUTION: DO NOT OVERTIGHTEN BOLTS

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

