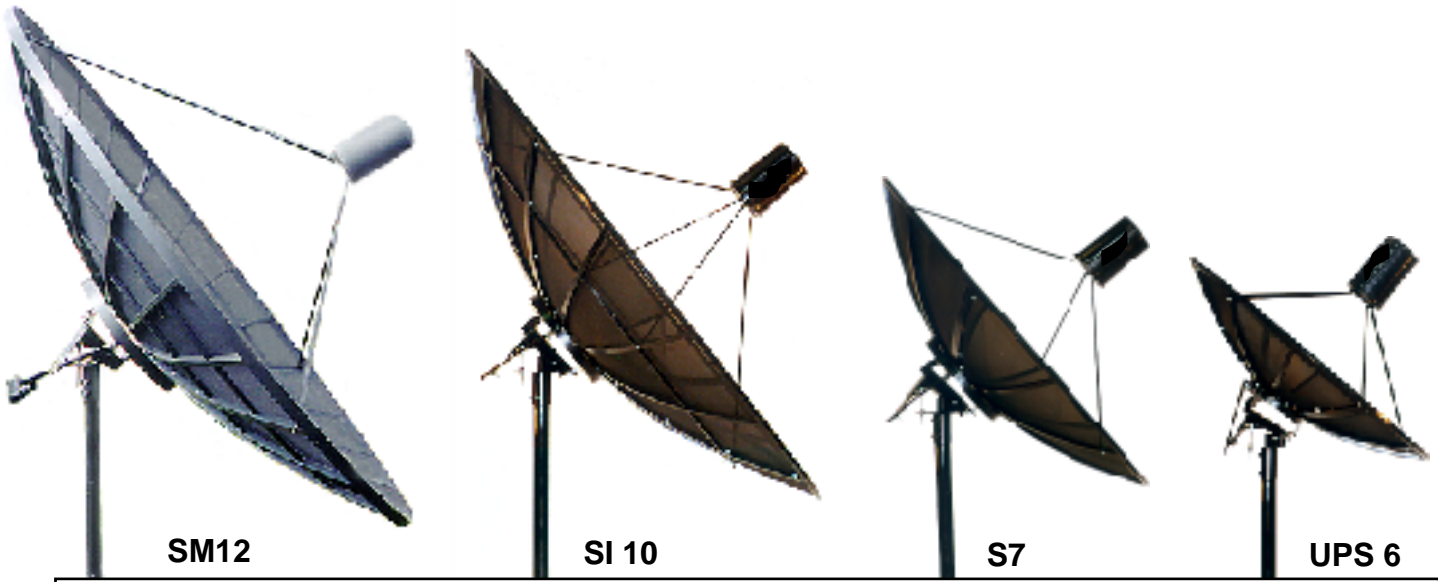


KTI/SAMI

Antenna Installation Manual

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



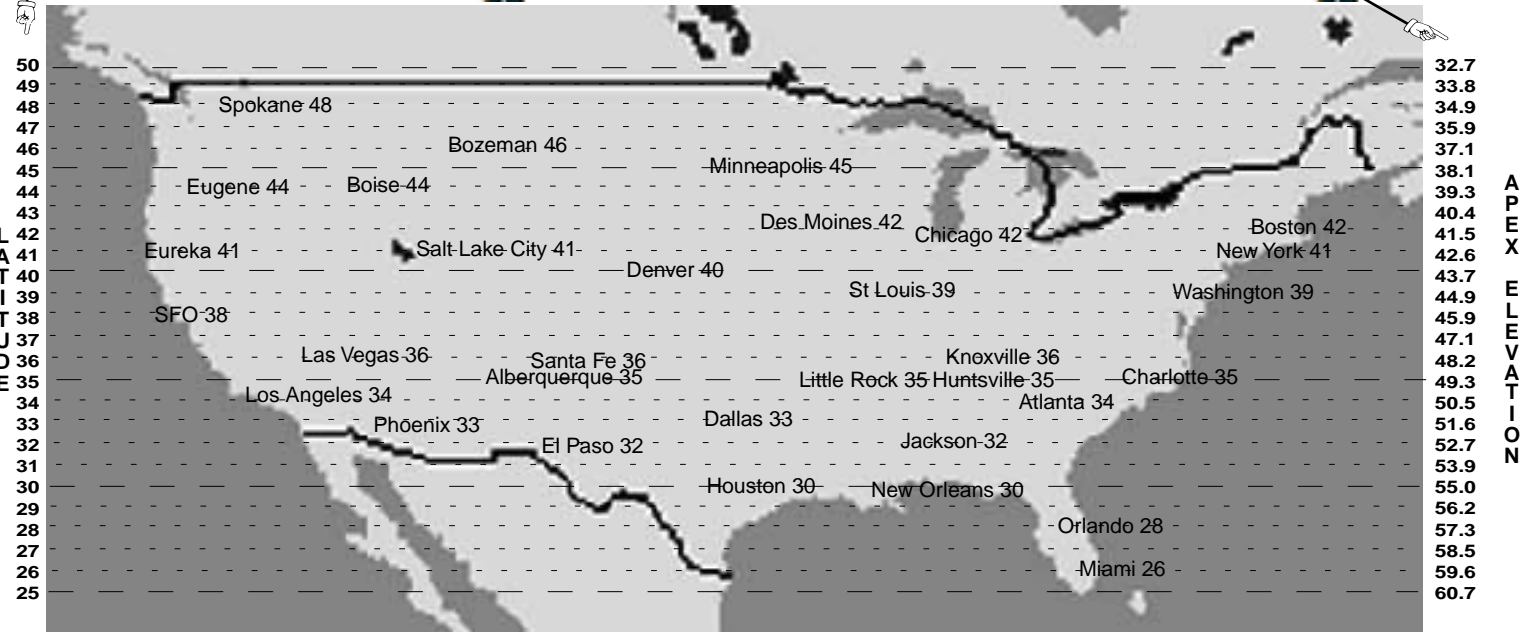
STEP FIVE:

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

USE THIS BOLT TO MAKE ADJUSTMENT

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

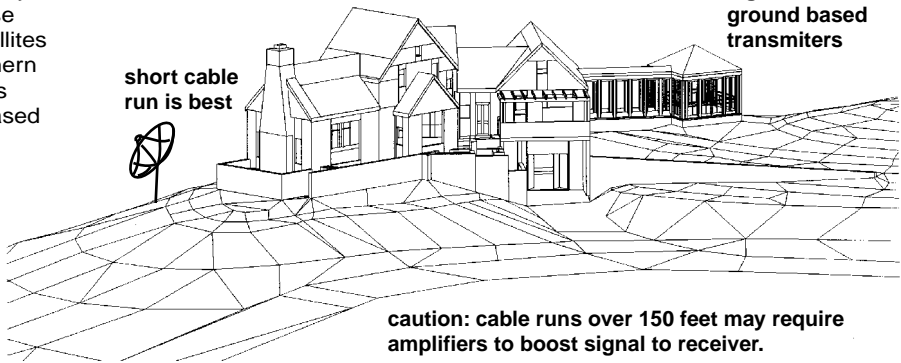


STEP ONE:

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 it's 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



caution: cable runs over 150 feet may require amplifiers to boost signal to receiver.

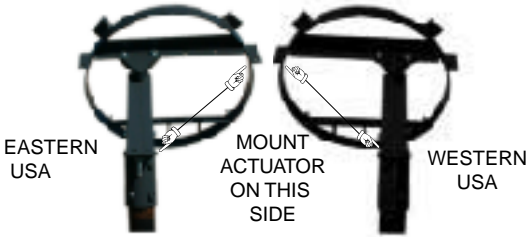
STEP TWO:

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.

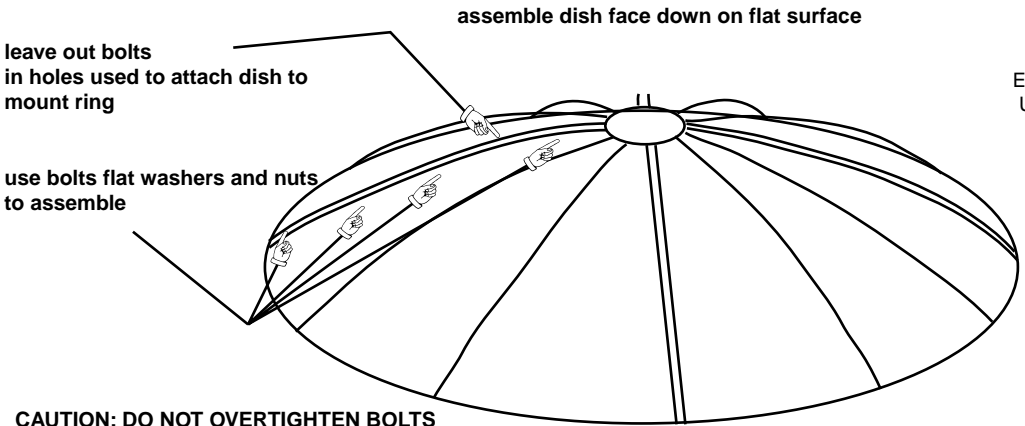
STEP THREE:

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



leave out bolts
in holes used to attach dish to
mount ring

use bolts flat washers and nuts
to assemble

CAUTION: DO NOT OVERTIGHTEN BOLTS

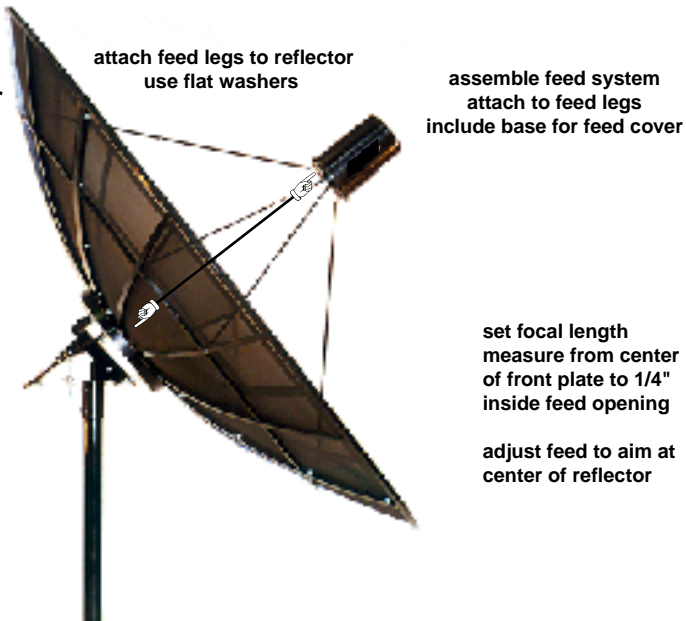
STEP FOUR:

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

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



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

adjust feed to aim at
center of reflector