



Home2US
Communications

DISH MOUNT INSTALLATION MANUAL





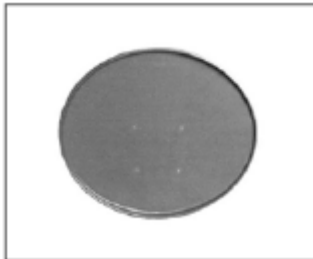
SITE SURVEY

- Before attempting to install your system, it will be necessary for you to survey possible locations where you can successfully locate your dish. REMEMBER, your dish MUST have a clear, unobstructed view of the sky in the direction of the satellite.
- Possible signal obstructions are trees, tree branches, power lines, and buildings. In some instances the signal is limited by geographic location (e.g., a location in a valley might be blocked by a mountain).
- Your ability to clear an obstacle is based on your elevation and distance from that obstacle.
- See page 8 for mounting options. Decide which option will work for your situation and prepare your mast for mounting the dish.

ASSEMBLING THE DISH

Part List – Check to make sure all parts are included.

Part #	Quantity	Description
1	1	75cm Dish
2	1	LNB (Device that faces into the center of the dish to receive the signal)
3	1	LNB Main support arm
4	1	Black plastic cap for end of LNB support arm
5	4	½" bolts [black] (fit through face of dish and attach bracket to dish)
6	1	1-1/8" bolt (fastens LNB main support arm to dish mounting bracket)
7	1	9/16" bolt (fastens LNB main support arm to dish mounting bracket)
8	7	Nuts for 1-1/8", 9/16", 2" and ½" bolts
9	1	LNB collar (two pieces)
10	2	Tapping screws (holds together the 2 sides of the LNB collar)
11	1	2" bolt (mounts LNB collar to LNB main support arm)
12	1	Dish mount
13	4	Plastic washer [clear] (fit between face of dish and head of ½" bolts)
14	1	Elevation rod
15	2	Washers
16	1	Hitch pin
17	1	Tri-mast foot plate
18	1	Tri-mast Pole (AZ/EL bracket bolts around this)
19	2	Tri-mast support arms
20	2	2-1/2" bolts (attach mast to Tri-mast foot plate)
21	2	Nuts for ½" bolts
22	3	Washer for ½" bolts
23	1	60-ft. roll of RG6 Coax cable
24	1	Compass



Part 1: 75cm dish (1)



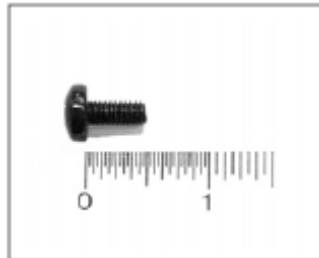
Part 2: LNB (1)



Part 3: LNB main support arm



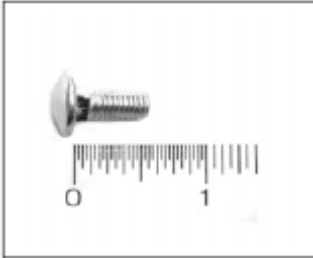
Part 4: Plastic cap (1)



Part 5: 1/2" bolt (4)



Part 6: 1-1/8" bolt (1)



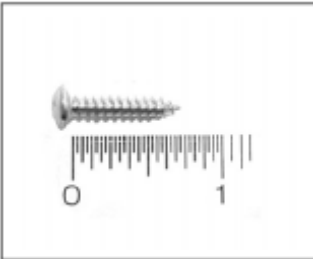
Part 7: 9/16" bolt (1)



Part 8: Nuts (7)



Part 9: LNB collar (1)



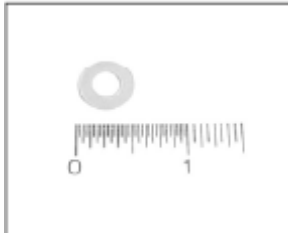
Part 10: Tapping screws (2)



Part 11: 2" bolt (1)



Part 12: Dish-mounting bracket



Part 13: Plastic washer (4)



Part 14: Elevation rod



Part 15: Washer



Part 16: Hitch pin



Part 17: Tri-master foot plate
(1)



Part 18: Tri-mast pole (1)



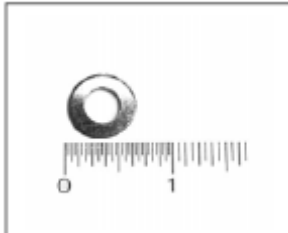
Part 19: Tri-mast arms (2)



Part 20: 2- 1/2" bolt (2)



Part 21: Nut for 1/2" bolt



Part 22: Washer for 1/2" bolt



Part 23: 60 ft. RG6 Coax
Cable



Part 24: Compass



ASSEMBLY INSTRUCTIONS

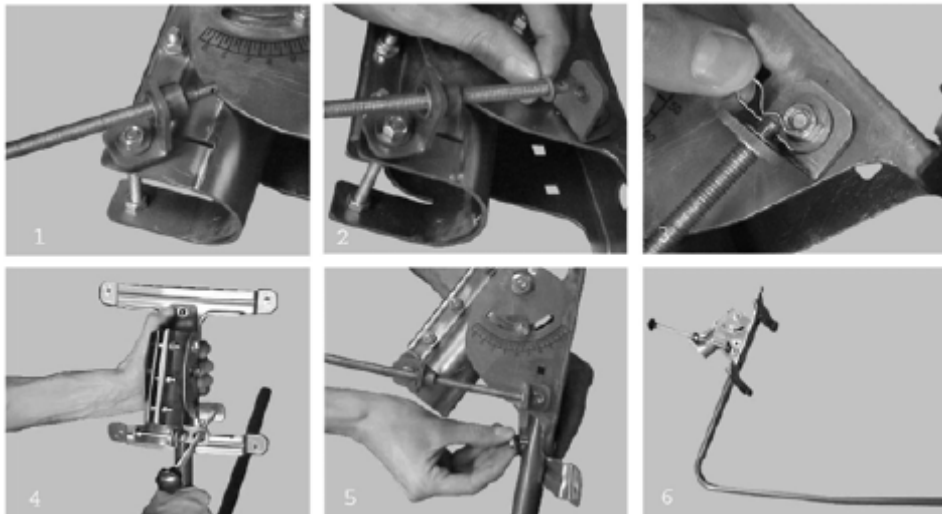
NOTE: When you unpack your hardware, save the original boxes and Styrofoam in case it is necessary to return.

STEP 1

- Locate:
- | | |
|-----------------------------------|---------------------------------|
| 1. Dish mount (Part#12) | 2. Elevation rod (Part#14) |
| 3. (2) Washers (Part#15) | 4. Hitch pin (Part #16) |
| 5. Main LNB support arm (Part #3) | 6. 9/16" bolt (Part #7) |
| 7. 1-1/8" bolt (Part #6) | 8. (2) Nuts for bolts (Part #8) |

Assemble:

1. Insert the tip of the threaded Elevation rod (Part #14) into the guide on the right side of the dish mount (Part #12), and thread it through until it is near the other guide on side of the mount.
2. Place the first washer (Part #15) on the unthreaded tip of the elevation rod, and continue threading the rod until the tip is inserted into the second guide on the mount.
3. Place the other washer (Part #15) on the tip of the rod on the other side of the second guide, and insert the hitch pin (Part #16) into the hole in the tip of the elevation rod.
4. Slide the flat end of the main LNB support arm (Part #3) onto the dish mount (Part #12) between the collar that slides onto a pole and the back of bracket that attaches to the dish.
5. Attach the support arm to the bracket with the 9/16" bolt (Part #7) on top and the 1-1/8" bolt (Part #6) on the bottom.

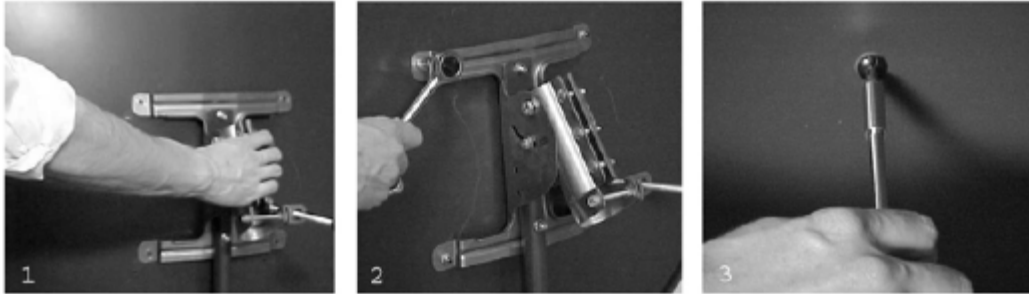




STEP 2

- Locate: 1. Clear plastic washer (Part #13) 2. ½" black bolts (Part #5)
 3. (4) Nuts for bolts (Part #8) 4. Dish (Part #1)

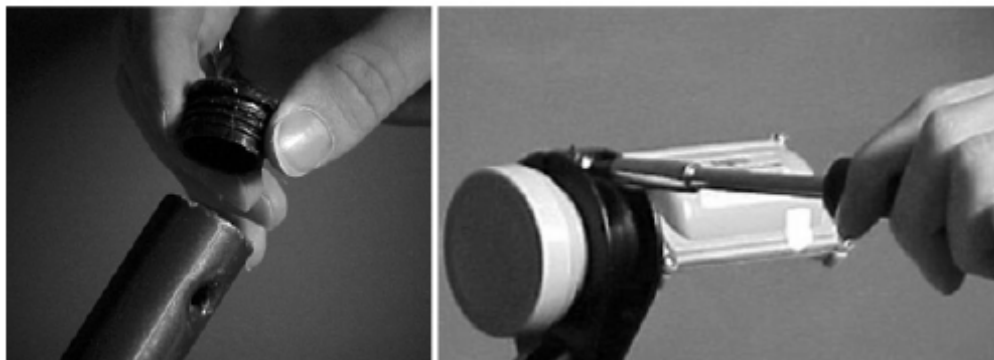
- ASSEMBLE: 1. Place a clear plastic washer on each of the 4 black ½" bolts.
 2. Attach dish to the dish bracket using the four black ½" bolts.
 3. Tighten nuts securely.



STEP 3

- Locate: 1. Black plastic cap (Part#4) 2. LNB collar (Part #9)
 3. 2" bolt (Part #11) 4. LNB (Part #2)
 5. (2) Tapping screws (Part #10)

- ASSAMBLE:
1. Place the LNB collar (Part #9) on the end of the LNB main support arm.
 2. Insert the Black plastic cap (Part #4) and 2" bolt (Part #11) through the LNB collar, and the LNB main support arm. Tighten with 10mm wrench.
 3. Insert the LNB (Part #2) into the LNB collar with the large round end (feed-horn) facing the dish.
 4. Tighten the LNB collar using the two tapping screws (Part #10)





MOUNTING THE DISH



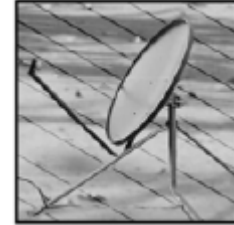
Pole Mount



Roof Mount



Wall Mount



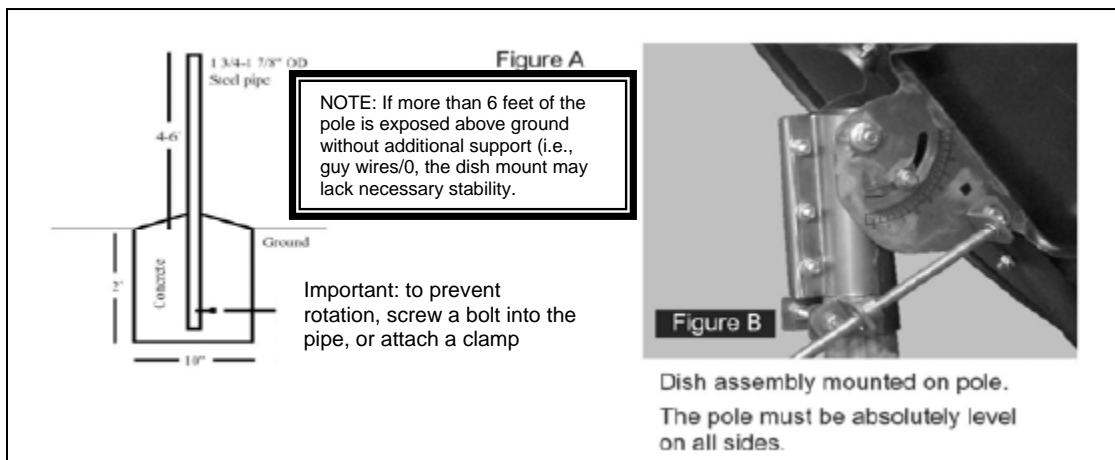
Patio Mount

POLE MOUNT

Tools Needed:

- (1) Steel Post (1 – 3/4" ~ 1-7/8" OD x 6~8')
- (1) Bag concrete
- (1) Magnetic Torpedo level
- (1) Post-hole digger or auger

1. Acquire a 1-3/4" ~ 1-7/8" OD steel post 6~8 ft. in length (galvanized heavy wall pipe is best)
2. Dig a hole 10" in diameter and 2~3 ft. deep, preferably on level ground.
3. Pour a little concrete in the bottom of the hole, and let harden.
4. Place the pole in the hole, and make sure it is plumb -level on all sides- using the Magnetic Torpedo level.
5. Fill the hole around the post with concrete, making sure using the Magnetic Torpedo level that the pole remains vertically level on every side.
6. Use some method to stabilize the pole so it remains plumb when the concrete sets up.
7. Mount the dish assembly on the pole. (See Figure A and Figure B)





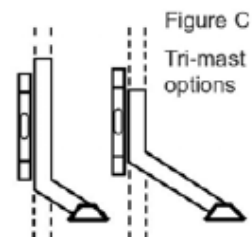
ROOF, PATIO AND WALL MOUNTS

Tools Needed: (1) Hammer
(1) Power Drill (3/16" and 1/8" bits)
(1) Ratchet with 7/16" socket
(1) Torpedo level
(1) Pencil or marker

- For ease of mounting and aiming the dish the roof and patio mounts are preferred over the wall mount.
- For steep roofs, working near the peak is easiest.

1. Locate a stud by pounding with a hammer, and place the tri-mast foot plate (Part #17) so that lag bolts will be screwed into the center of the stud.
2. Mark location on surface, and drill the pilot holes with 3/16" drill bit. Note: You may need to drill several holes to find the center of the stud. Cover any unused hole by filling it with silicone sealant and slightly mounding sealant over the top.
3. Cover the pilot holes with a liberal amount of silicone sealant and line up the footplate (Part #17) with the pilot holes.
4. Secure footplate to surface with 3 lag bolts.
5. Remove the black plastic cap from the Tri-mast pole.
6. Attach the Tri-mast pole (Part #18) to the footplate using one 2-1/2" bolt (Part #20) and locking nut (Part #21). Note: Use hole on either end of Tri-mast pole. (See Figure C for options.)
7. Attach the Tri-mast arms (Part #19) to the Tri-mast pole (Part #18) with 2-1/2" bolt (Part #20) and locking nut (Part #21).
8. Locate stud for attaching each Tri-mast arm.
9. Mark the location where you will anchor the Tri-mast arms, and drill a 3/16" pilot hole for each lag bolt.
10. Cover the first pilot hole with a liberal dab of silicone sealant, and fasten the Tri-mast arm (Part #19) using a lag bolt.
11. Using a magnetic torpedo level, adjust the upright portion of Tri-Mast pole until it is plumb – level on all sides (front, back, left and right).
12. Secure the Tri-mast arm with a self-tapping screw.
13. Repeat steps 5-10 for the other Tri-mast arm. (Part #19), making sure that you maintain plumb.
14. Mount the dish assembly on the pole. Locate: 1. Clear plastic washers (Part #13) 2. 1/2" black bolts (Part #5)

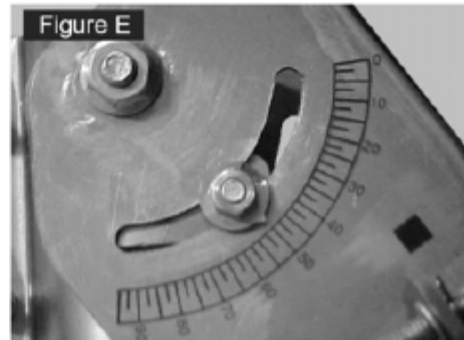
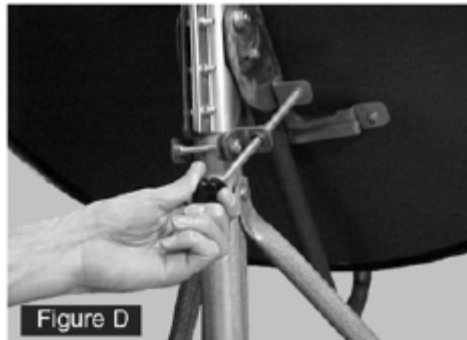
The pole must be absolutely level on all sides.



Find Optimum Elevation (Up and down)



1. Turn the knob on the elevation rod until the dial indicator on the side of the dish mount lines up with the elevation value given for your area. Turn clockwise to raise the elevation and counterclockwise to lower the elevation (See Figures D and E below).
2. Adjust elevation up or down slightly until you see your highest signal strength. This may be a couple degrees above or below your given value. When the signal strength improves, you know that you are now getting signal from satellite instead of other terrestrial signal. If signal quality does not appear at this point, your dish is not pointing at our satellite.
3. Proceed to line up with the correct satellite.



Adjust Azimuth

1. If you did not see quality in Step 4, you know that your dish is not pointing at the exact azimuth. The satellite is only 2° apart from each other, so this is a high –precision process.
2. Start in one direction, either left or right, and move the dish only 1mm (1/16”) at a time.
3. You must wait 15 seconds after each adjustment in order for signal quality to appear.
 - The signal strength may fluctuate up or down a few points but should not drop as low as it was before you raised the elevation.
 - The highest signal strength is probably not our satellite, but if you are waiting 15 seconds after each adjustment, signal quality will appear when you are pointing at our satellite.
4. signal quality does not appear after several adjustments in one direction, start making these same adjustments in the other direction.
5. Continue these adjustments until signal quality appears.
6. When signal quality appears, mark the position.



CITY	ST	AZIMUTH	ELEVATION
AMC-4			
ALEXANDRIA BAY	NY	213.8114	33.09667
APALACHICOLA	FL	210.0679	51.13864
ARANSAS PASS	TX	188.1822	57.13995
BADGER	MN	186.6154	33.80765
BANDON	OR	147.653	34.93314
BAUDETTE	MN	188.4906	33.7495
BAYFIELD	WI	193.8384	35.25259
BEAUFORT	NC	218.453	42.04852
BILOXI	MS	202.9883	52.17184
BLAINE	WA	152.1407	30.02424
BONNERS FERRY	ID	159.9694	32.18947
BOSTON	MA	220.5298	32.54668
BROWNSVILLE	TX	187.9769	59.47252
BRUNSWICK	GA	214.4072	47.96017
BUFFALO	NY	210.85	35.6909
CAPE MAY	NJ	217.9301	37.41263
CEDAR KEY	FL	213.6596	50.68854
CHARLESTON	SC	215.4364	45.60782
CLEVELAND	OH	207.8626	38.14767
COLUMBUS	OH	206.8361	40.16134
CONNEAUT	OH	209.149	37.26517
COPPER HARBOR	MI	197.5407	33.96894
CRESCENT CITY	CA	147.2346	36.28401
CROSBY	ND	176.9572	33.82719
DAYTONA BEACH	FL	216.6814	49.47588
DEL RIO	TX	180.2113	55.7544
DETROIT	MI	205.696	37.82759
DOUGLAS	AZ	163.8892	52.32175
DULUTH	MN	192.1185	35.49923
EAGLE PASS	TX	181.0425	56.49787
EASTPORT	ME	223.7055	28.29888
EL CENTRO	CA	154.3751	48.72642
EL PASO	TX	169.6582	52.54155
ERIE	PA	209.6701	36.90248
EUREKA	MT	161.6205	32.29354
EVERGLADES CITY	FL	219.2579	52.69403
FORT BRAGG	CA	146.505	38.59764
FREERPORT	TX	191.5311	55.65289
HANNAH	ND	183.059	33.76402
HOGELAND	MT	169.8758	33.45223
INTERNATIONAL FALLS	MN	190.0718	33.73124
JACKSONVILLE	FL	214.8055	48.80998
KEY WEST	FL	219.9893	54.10261
KITTY HAWK	NC	218.7554	40.33754
LEWISTON	NY	210.5168	35.48537
LOMPOC	CA	148.1385	44.70235
LONG BRANCH	NJ	218.2364	35.74985



CITY	ST	AZIMUTH	ELEVATION
AMC-4			
LYNDEN	WA	152.4785	30.16694
MARQUETTE	MI	198.4382	34.81833
MASSENA	NY	214.7578	32.1154
MIAMI	FL	221.1499	51.98463
MOCLIPS	WA	149.7097	31.17399
MONTAUK	NY	220.2267	34.0581
MONTEREY	CA	147.3707	42.15409
MONTICELLO	ME	222.0985	27.62983
MYRTLE BEACH	SC	216.224	44.20621
NEWPORT	OR	148.798	33.66899
NEWPORT	RI	220.7125	33.33863
NEWPORT	VT	217.8884	30.88389
NOGALES	AZ	161.3908	51.92398
NORTHPORT	WA	158.1954	31.58643
OCEAN CITY	MD	218.0732	38.0277
ONTONAGON	MI	195.8232	34.90003
OPHEIM	MT	172.8366	33.69085
OROVILLE	WA	156.1515	31.10543
OSWEGO	NY	213.5151	34.15568
PATTERSON	LA	199.0346	53.77233
PEMBINA	ND	184.8673	33.72957
PENSACOLA	FL	205.8487	51.47004
PORT ANGELES	WA	150.9957	30.62509
PORT HURON	MI	206.244	36.9738
PORT SULPHUR	LA	202.1099	53.43942
PORTLAND	ME	220.7461	30.99468
PRESIDIO	TX	173.19	55.32879
RICHFORD	VT	217.3226	31.05025
ROCHESTER	NY	212.3014	34.91011
ROCKWOOD	ME	220.3139	29.07789
SABINE	TX	194.1585	54.4706
SAN DIEGO	CA	151.8076	48.11876
SAULT STE MARIE	MI	202.4134	34.06617
SAVANNAH	GA	214.2755	46.88021
SOMERTON	AZ	155.6384	49.26931
SWEETGRASS	MT	165.6082	32.79663
TAMPA	FL	215.5897	51.47373
TOLEDO	OH	205.3005	38.67278
VAN BUREN	ME	221.6007	26.99543
VIRGINIA BEACH	VA	217.8921	39.80231
WARRENTON	OR	149.6194	32.28798
WARROAD	MN	187.5259	33.61257
WESTFIELD	NY	210.2294	36.51228
WILMINGTON	NC	217.1148	43.20376
ZAPATA	TX	183.8159	58.51006