



### Antenna, sat 3.7m polar fixd or motr, 4petal (PN: D37F48-4PC-5.5)

ANTENNA GAIN FOR RX	42.3 dBi @ 4 Ghz / 51.1 dBi @ 12 Ghz
DIAMETER	3.7 meter (12.2 feet)
MOUNT TYPE	Fixed AZ/EL
ISOLATION	35 dB
MATERIAL/PETALS	Spun aluminum, 4 piece with PRECISE-ALIGN flange

Stationary 3.7 meter satellite antenna with a prime focus 4-petal aluminum reflector, with PRECISE-ALIGN reflector joining flange. Multi-petal reflector for easy-carry to dish location. Fixed AZ/EL mount that attaches to 5.5" OD pipe extending 60" above surface, specify feed support to hold C or Ku feedhorn. C band gain = 42.3 dBi / Ku band gain = 51.5 dBi. Feedhorn, LNB and pipe sold separately.

Specifications	3.7m
C Band Gain @ 4 Gig	42.3 db
Ku Band Gain @ 12 Gig	51.1 db
Thickness	.090
f/d Ratio	.4
Wind Force at 60°F at 90 MPH	4,200 lbs
First Side Lobe	2.4°
All Side Lobes	-22 db
3db Beam Width	1.4°
F/L	57.6"
Antenna Weight	165 lbs
Crate Dims w/Antenna	76"x36"x78"
Approximate Weight	348 lbs
Mount Weight	208 lbs
Pallet Dims w/Mount	50"x50"x25"
Approximate Weight	212 lbs



You are entitled to the manufacturer's limited express warranty, if any, that accompanies the product. DAWNco makes no additional or independent warranty. All other warranties, express or implied, including the warranties of merchantability and fitness for a particular purpose are disclaimed. We do our best to be accurate. We are not responsible for any typographical, photographic or technical errors. See "Policies for DAWNco" under the "Answers" button at the button at the DAWNco website.



**DAWNco**

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**Technical:**

Call DAWNco • Mon-Fri  
9:00 AM - 5:00 PM EST  
Phone 248-391-9200

# 48" MOUNT BOLT KIT

## 3.0m, 3.7m & 3.8m w/48" Mount

Antenna to Ring

- 8-1/2" x 3" Bolts
- 8-1/2" Nuts
- 8-1/2" Lock Washers
- 8-1/2" Flat Washers
- 16-1/2" Rubber Washers

Chaparral Feed

- 1- Set of Struts (4)
- 1-Collar
- 8-1/4" x 1 1/2" Bolts
- 8-1/4" Lock Washers & Nuts

Feedhorn to Horseshoe Collar

- 3-1/4" x 3/4" Bolts
- 3-1/4" Flat Washers
- 3-1/4" Nuts

Base Can to Mount

- 2-3/4" x 5" Bolts
- 2-3/4" Lock Washers
- 2-3/4" Flat Washers
- 2-3/4" Nuts

Back Brace Length

- 3.0m- 37" Long
- 3.7m- 50" Long
- 3.8m- 53" Long

Turnbuckle

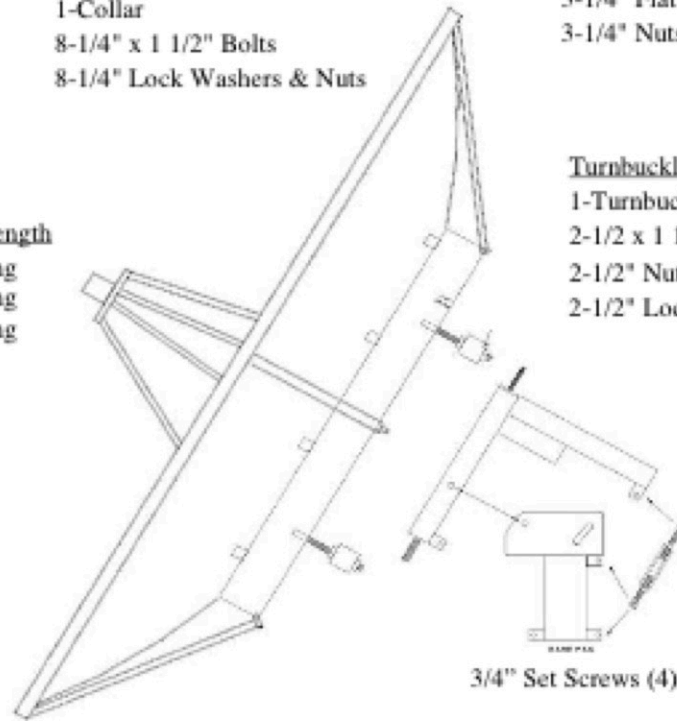
- 1-Turnbuckle
- 2-1/2 x 1 1/2" Bolts
- 2-1/2" Nuts
- 2-1/2" Lock Washers

Locking Bar

- 1- 27 1/2" Lock Bar
- 2-1/2" x 1 1/2" Bolts
- 2-1/2" Nuts
- 2-1/2" Lock Washers

Back Braces

- 8-1/2" x 1 1/2" Bolts
- 8- 1/2" Lock Washers
- 24-1/2" Nuts
- 8-Bent Tabs
- 8-Brace Clips
- 8-3/8" x 1 1/2" Bolts
- 8-3/8" Nuts
- 16-1/4" x 3/4" Bolts
- 16-1/4" Nuts
- 8-3/8" Lock Washers
- 16-1/4" Lock Washers



3/4" Set Screws (4)

**NOTE: SECTIONAL ANTENNAS INCLUDE ADDITIONAL HARWARE, SEE TABLES BELOW**

**Template Rib Hardware: Sectional**

Antenna Size	1/2" x 3/4" Bolts	1/2" Lock Washers	1/2" Nuts
3.0M	44	44	44
3.7M	52	52	52
3.8M	56	56	56

**Splice Straps: Sectional**

Antenna Size	Splice Straps	1/2" x 3/4" Bolts	1/2" Lock Washers	1/2" Nuts
3.0M	4	8	8	8
3.7M	4	8	8	8
3.8M	4	8	8	8

**NOTE:**

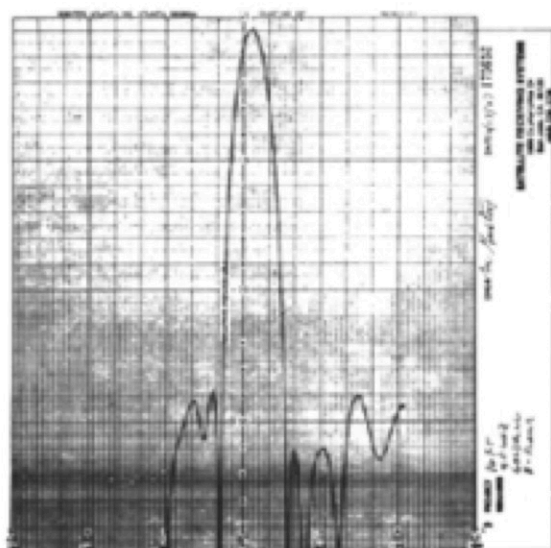
Stainless steel or DURA-CON® hardware provided.  
 \*DURA-CON® is a corrosion resistant coating.  
 DURA-CON®: Problem of thread-galling is eliminated.

**Missing parts warranty:** Factory warranty on missing parts is 30 days ARO. Mfr will supply parts and shipping Regular UPS at no charge for 30 days ARO within the continental US. Red label within the US is only covered by Mfr if notified within three days ARO. Missing parts warranty is void 30 days ARO.

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Aperture Efficiency at Ku Band - 67% (57.6° f/l)



RADIATION PATTERN

(Click on the image to Enlarge)

### Radiation Pattern for 36" Dish

#### 5.0 M 16'4"

- C Band Measured Gain @ 4 Ghz: 44.3 db
- Weight: 358
- Area: 201 sq. ft.
- Material: 3003
- F/D Ratio: .3
- Wind Force @ 60° @ 90 MPH: 7800 #
- KU Measured gain @ 12 Ghz.: 54.2 db
- Antenna Noise at >>45° look angle = 20°/K
- Beamwidth (3.0 db)
- 0.9 degrees (E-plane)
- 0.95 degrees (H-plane)
- Beamwidth (10.0 db)
- 1.7 degrees (E-plane)
- 1.8 degrees (H-plane)
- Sidelobe = 1.1 degrees (E-plane)
- All Sidelobes > -22 db
- Antenna Gain, 2.0 degrees off axis = 23 db

#### 3.7 M 12'

- Weight: 201 #
- Thickness: .125
- F/D Ratio: .4
- KU Gain @ 12 Ghz. @ 65%: 51.1 db
- 1st Sidelobe: .8°
- 3 db Beamwidth: 1.4°
- Wind Force @ 60° @ 90 MPH: 4200 lbs.
- C Band Gain @ 4 Ghz.: 42.3 db

#### 3.9 M 12'9"

- Weight: 228 #
- Thickness: .125
- F/D Ratio: .375
- KU Gain @ 12 Ghz.: 51.9 db
- 1st Sidelobe: 2.3°
- 3 db Beamwidth: 1.4°
- Wind Force @ 60° @ 90 MPH: 4475 lbs.
- C Band Gain @ 4 Ghz @ 65%: 42.6 db

#### 4.2 M 14'

- Weight: 274 #
- Thickness: .125
- F/D Ratio: .34
- C Band Gain @ 4 Ghz. @ 65%: 43.5 db
- 1st Sidelobe: 2.1°
- 3 db Beamwidth: 1.2°
- KU Gain @ 12 Ghz.: 53.0 db
- Wind Force @ 60° @ 90 MPH: 5975 lbs.

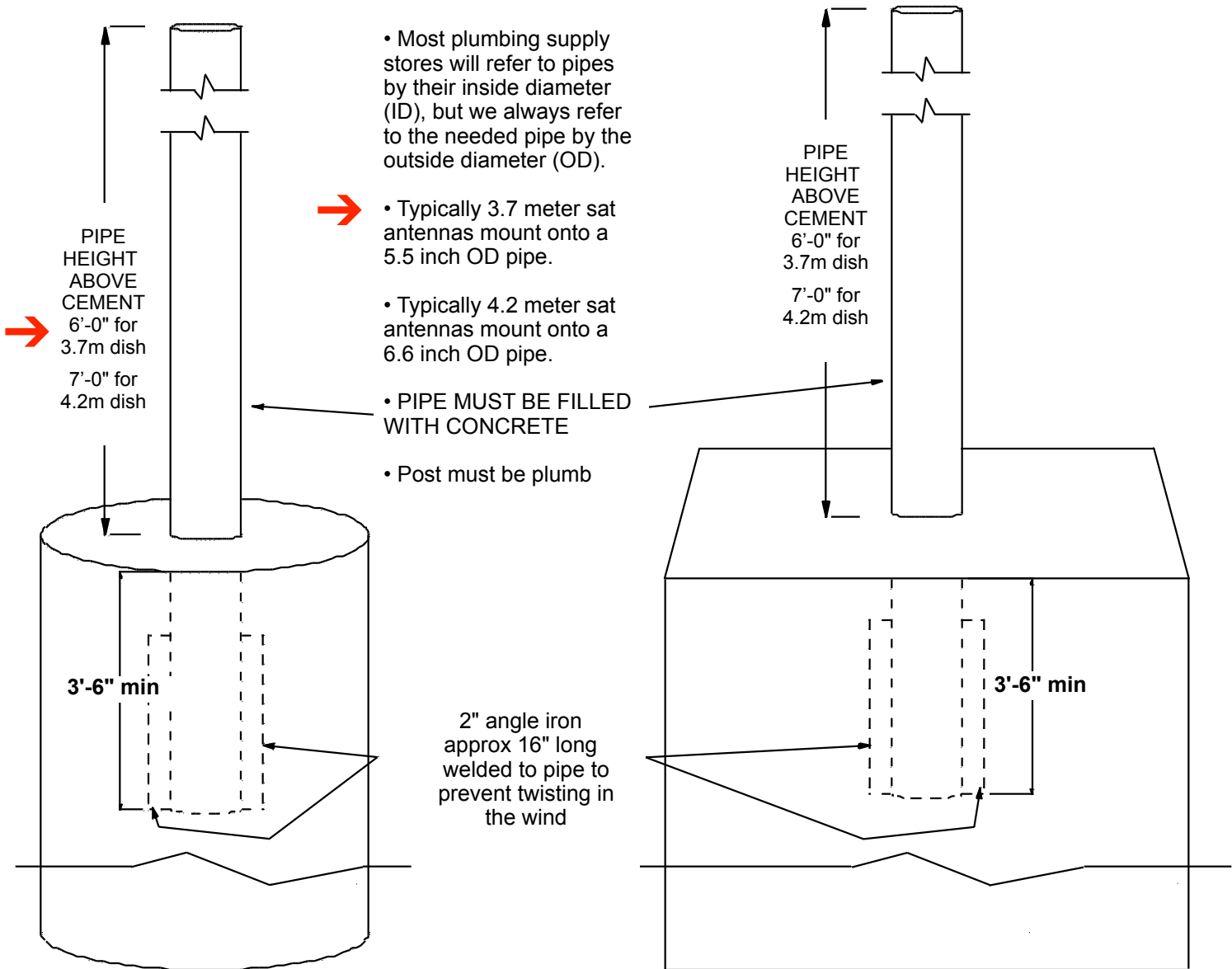
#### .5 M 14'9"

- Weight: 304 #
- Thickness: .125
- F/D Ratio: .33
- C Band Gain @ 4 Ghz.: 43.9 db
- KU Gain @ 12 Ghz: 53.3 db
- 1st Sidelobe: 1.95°
- 3db Beamwidth: 1.2°
- Wind Force @ 60° @ 90 MPH: 6600 lbs.



Reasonable prices, priceless reasoning.

Preparation of in-ground base post to support a satellite antenna. Customer must verify the proper pipe OD needed for the new satellite antenna that they have ordered, which is usually stated on the quote.



FOUNDATION REQUIREMENTS SOIL TYPE: 3500-4000 PSF		
ANTENNA SIZE	WIND LOAD 90 MPH SQUARE PAD	WIND LOAD 90 MPH SONO TUBE
3.0 M	4' x 4' x 3.7' DEEP	2.5' DIA X 5'
3.7 M	4.5' x 4.5' x 4' DEEP	2.5' DIA X 5.8'
3.8 M	4.6' x 4.6' x 4.2' DEEP	2.5' DIA X 6'
4.2 M	4.8' x 4.8' x 4.5' DEEP	2.5' DIA X 6.5'
4.5 M	5' x 5' x 4.7' DEEP	2.5' DIA X 7'
5 M	5' x 5' x 4.8' DEEP	2.5' DIA X 7.2'

### NOTES:

- \*5 #3 Rebar used in Footings
- \*Rebar distributed evenly in two directions
- \*Center of Rebar shall be min. of 2" above bottom of pad
- \*Rebar shall be min. of 3" away from edge of concrete

### NOTES:

- \*Pad must extend below frost line
- \*Dimensions for concrete may vary depending on soil types and wind conditions, check with local engineer
- \*Post must be out of ground min. of 6 ft
- \*Post must have weldments on side to prevent post from turning in the wind
- \*Post must be clear 20" from top

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