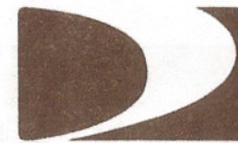


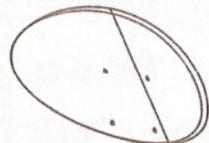
36" MULTI-SATELLITE ANTENNA ASSEMBLY MANUAL

FOR DIRECTV® 95°W/101°W PRO BRAND INTERNATIONAL, INC. MODEL 36DSHR0-02



DIRECTV

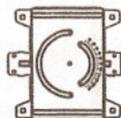
PARTS INCLUDED



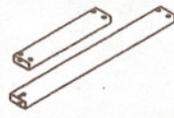
36" Reflector



AZ/EL Mount



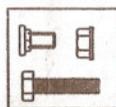
Back Frame



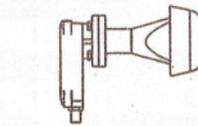
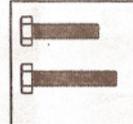
Feed Support Arms
1 - Short ; 1 - Long



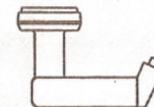
Feed Support Elbow



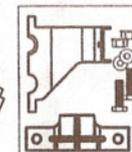
Antenna Hardware Kit
- 5/16"x 1-3/8" Hex Head Bolt (7)
- 5/16"x 5/8" Round Flat Head Bolt (7)
- 5/16" Serrated Flanged Nut (14)
- 5/16" x 3" Lag Bolt (6)
- 5/16" x 2" Lag Bolt (4)



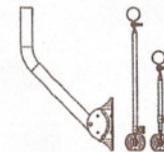
95°W Ku LNB Assembly



101°W DBS
LNB (DTV32+)



LNB Mount
Bracket Kit



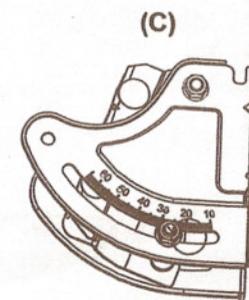
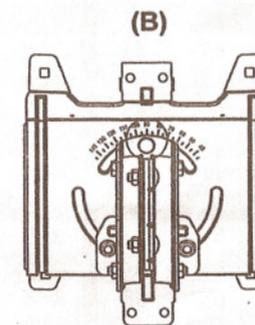
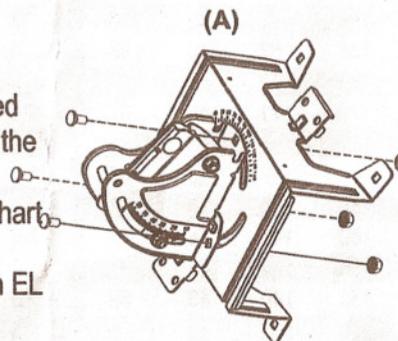
Mast & Base
With Mono-Pole Braces
Long (1)
Short (1)

Step 1 AZ/EL Setup

A) Attach AZ/EL mount to back frame as shown in diagram A. Tighten when proper skew adjustments have been set for your area.

B) Setting SKEW-Find the SKEW setting for your location from the chart located on the next page. Rotate AZ/EL mount on the back frame until the pointer is in the appropriate setting.

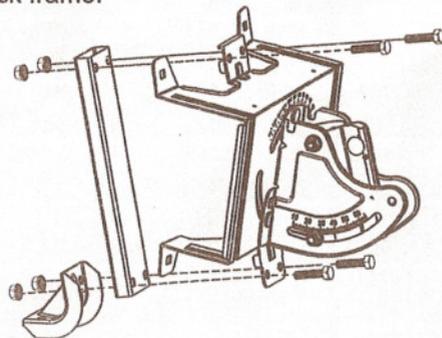
C) Setting Elevation-Find the elevation (EL) setting for your location from the chart located on the next page. Loosen the nuts on the AZ/EL mount to allow the EL bracket to slide. Point the indicator line to the appropriate setting. Tighten both EL brackets nuts.



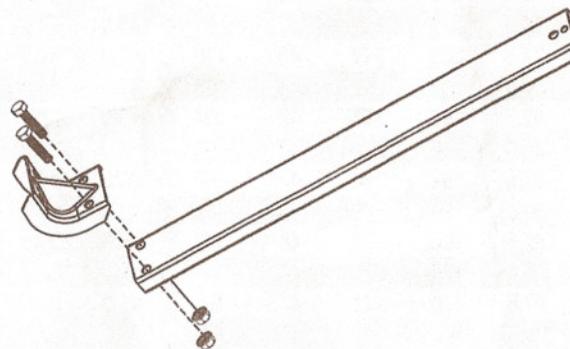
Step 2 Assemble Short Feed Arm to Back Frame

A) Place top bolts above the scale on the back frame first.

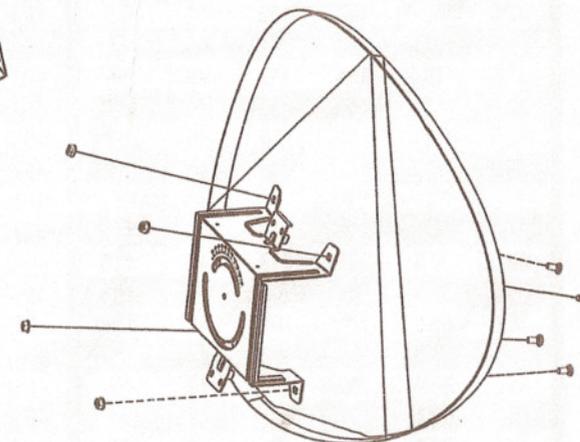
B) Place feed support elbow on short feed tube prior to attaching to low side of back frame.



Step 3 Attach Long Feed Tube to Feed Support Elbow



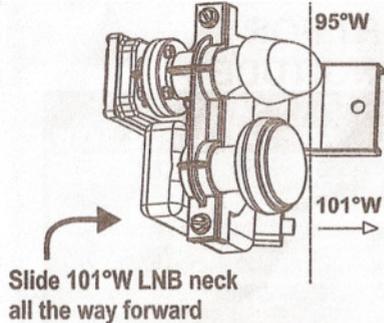
Step 4 Attach Back Frame to 36" Reflector



Align peg on 95°W LNB neck with hole on the bottom bracket.

Step 5 Feed & LNB Assembly

NOTE: TO PREVENT POSSIBLE LNB DAMAGE, THE FOLLOWING STEPS SHOULD BE PERFORMED ON A TARI F TOP OR SOLID SURFACE USE



HARDWARE INCLUDED IN MOUNTING BRACKET KIT.

A) Place 95°W LNB onto the bottom feed bracket in the position directly over the attachment for feed arm. The neck of the 95°W LNB has a small peg that will sit directly into a hole on the bottom bracket - ensuring proper placement and no rotation of the LNB. Place 101°W DBS LNB, DTV32+ onto the bottom feed bracket in the outer position.

Note: Both LNB's should be vertical, bodies facing straight down.

B) Attach the top bracket. Washer should be placed underneath head of screw.

C) Slide the 101°W LNB all the way forward until it reaches the stopping point. The 95°W LNB position is fixed.

E) Tighten the top bracket down being careful not to move the LNB's.

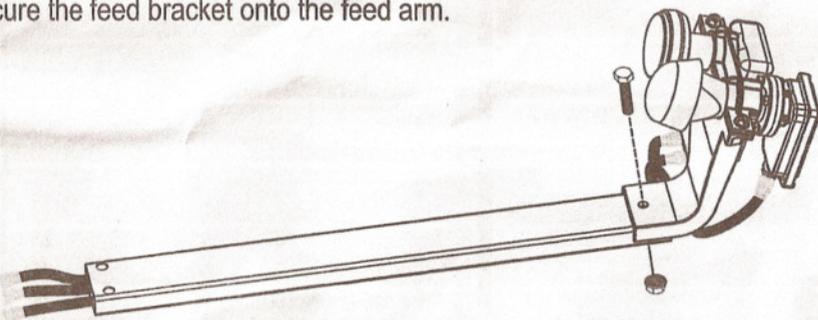
Slide 101°W LNB neck all the way forward

Step 6 Connecting the LNB's

A) If you have mounted the multi-switch (not included) to the back frame of antenna, make up three (3) 60" coax jumper cables. Feed your 3 coaxial cables through the feed arm. Start at the elbow and feed cables one at a time through the feed arm towards the LNB's & bracket.

B) Attach two coax to the 101°W LNB, DTV32+. Attach one coax to the 95°W LNB.

C) Slide the base of the bracket over the end of the feed support arm, secure the feed bracket onto the feed arm.



Step 8 Alignment Procedure

Connect the un-marked 95° W coax cable (from the P170+ LNB) to the receiver or a signal strength meter. DIRECTV® programming on the 95°W satellite is H polarity. Set the DC bias to 18V to select H polarity. Refer to the chart on the flip side of this manual, or from the receiver's installation info as displayed when the zip code is entered, to determine the magnetic AZ (azimuth) heading of the antenna for your installation site. The EL (elevation) and Skew settings should already be set, previously done in steps 1-B and 1-C. Use a compass to locate the AZ heading the antenna should point, then aim the antenna in this direction. Slowly move the antenna back-and-forth until a signal is detected. If no signal can be found, raise/lower the EL in 2° increments, and repeat the slow AZ back-and-forth rotation until a signal is detected. Once signal is found, move the antenna gently back-and-forth until peak signal is achieved. Snug the mast/tube clamp nuts. Loosen the two (2) EL bracket adjustment nuts (one on each side of the EL mount) to allow up-and-down EL movement of the antenna. Slowly move the antenna EL up-and-down to adjust for peak signal. Tighten the two EL adjustment nuts. Loosen the mast/tube clamp nuts, and again move the antenna very slowly back-and-forth, and peak for best signal. Tighten the mast/tube clamp nuts. If necessary, continue with alternating AZ and EL adjustments until maximum signal is reached. Maximum signal is achieved when additional AZ and EL adjustments do not improve signal strength any further. Follow the instructions provided with your multi-switch (NOT Included), and connect both 101° DBS sat coax cables, marked "Sat A", to the designated ports on the switch. Connect the un-marked 95°W coax cable to the switch. The Alignment and hook-up procedure is now finished.

Check all nuts/bolts on the antenna system and tri-mast to make sure they are properly tightened.

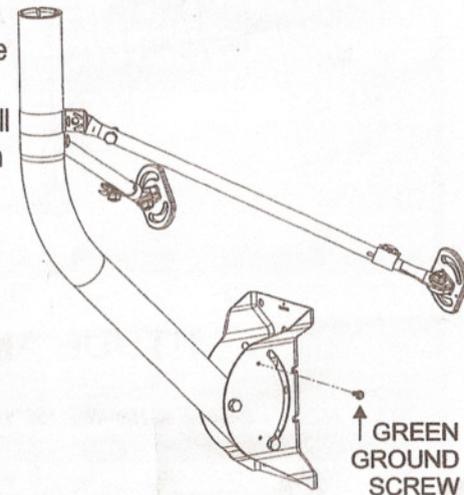
Step 7 Tri-mast Assembly & Installation

Assemble Mast as shown.

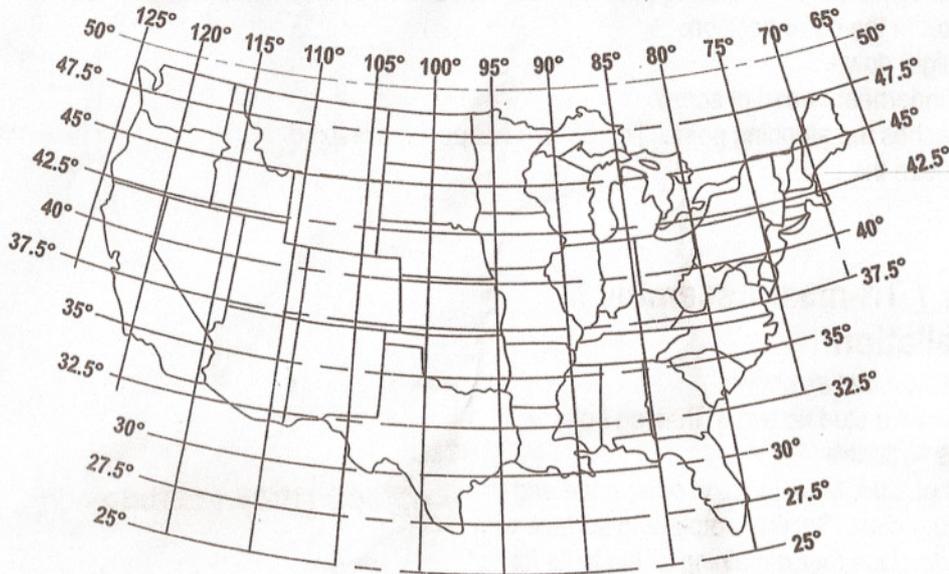
A) Locate a stud so two 3" that lag bolts will be screwed into the center of stud. Mark location on surface and drill the pilot holes. Secure footplate to surface with lag bolts. Use four remaining 2" lag bolts for wall.

B) Locate stud for attaching each mono-pole brace & mark location. Drill pilot holes for lag bolts/brace. Using a magnetic torpedo level, adjust the upright portion until it is plumb-level on all sides (front, back, left and right).

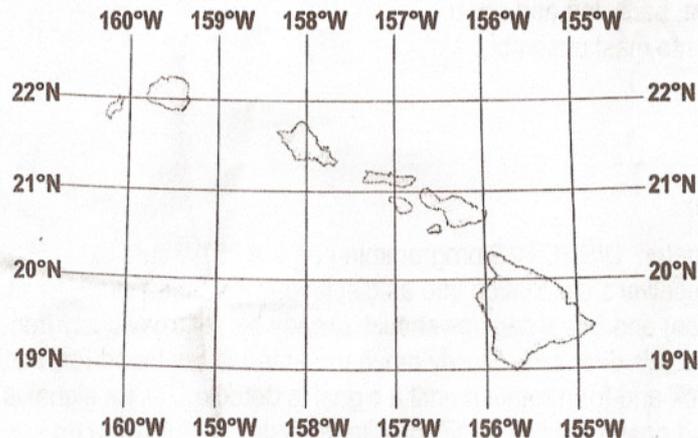
C) Place Dish onto mast assembly.



LATITUDE AND LONGITUDE



LATITUDE AND LONGITUDE



HAWAII ALIGNMENT CHART FOR SATELLITE @ 95° WEST LONGITUDE

		TRUE MAG				TRUE MAG					
LAT	LONG	AZ	AZ	EL	SKEW	LAT	LONG	AZ	AZ	EL	SKEW
18.5	154.5	101	91	21	21	21.5	157.0	101	91	18	24
18.5	155.0	100	91	20	21	21.5	157.5	101	91	17	24
						21.5	158.0	100	91	17	24
19.0	154.5	101	91	20	22	21.5	158.5	100	91	16	24
19.0	155.0	101	91	20	22	21.5	159.0	100	90	16	24
19.0	155.5	100	91	20	22	21.5	159.5	100	90	15	24
19.0	156.0	100	91	19	21	21.5	160.0	99	90	15	23
						21.5	160.5	99	90	14	23
19.5	154.5	101	91	20	22						
19.5	155.0	101	91	20	22	22.0	159.0	100	91	16	24
19.5	155.5	101	91	19	22	22.0	159.5	100	90	15	24
19.5	156.0	100	91	19	22	22.0	160.0	100	90	15	24
19.5	156.5	100	91	19	22	22.0	160.5	100	90	14	24
20.0	155.0	101	91	20	23						
20.0	155.5	101	91	19	23						
20.0	156.0	101	91	19	23						
20.0	156.5	100	91	19	22						
20.5	155.5	101	91	19	23						
20.5	156.0	101	91	19	23						
20.5	156.5	101	91	18	23						
20.5	157.0	100	91	18	23						
20.5	157.5	100	91	17	23						
						22.5	159.5	100	91	15	25
						22.5	160.0	100	90	15	25
						22.5	160.5	100	90	14	24
21.0	156.0	101	91	19	24						
21.0	156.5	101	91	46	24						
21.0	157.0	101	91	47	23						
21.0	157.5	101	91	48	23						

Determine your site LATITUDE & LONGITUDE by using the maps or another reference source (e.g. GPS or Atlas). Locate the grid point closest to your location in the table, values are provided in increments of 2.5°. Use the Azimuth, Elevation and Skew values to set the antenna AZ/EL mount for step 4, page 3 of this manual.

- *Use True Azimuth "TRUE AZ" when aligning to a known bearing or GPS.
- *Use Magnetic Azimuth "MAG AZ" when aligning with a compass.

