

**WARNING: INSTALLATION OF THIS PRODUCT NEAR POWER LINES IS DANGEROUS. FOR YOUR SAFETY, FOLLOW THE INSTALLATION DIRECTIONS. SEE SAFETY INSTRUCTIONS.**

**CHECK TOWER SECTION**

Check all tower sections on delivery to make sure there are no broken welds or bent braces or legs. Braces can usually be straightened, but if legs are severely bent the section should be placed. Make a damage claim against the transport company. Do not use damaged sections.

Delhi Towers are designed and built to stand up for years against severe wind and ice conditions. Although all towers are carefully made and inspected before they leave our factory, they are not guaranteed against failure due to shipping damage, over-loading or improper installation. Please read instructions carefully.

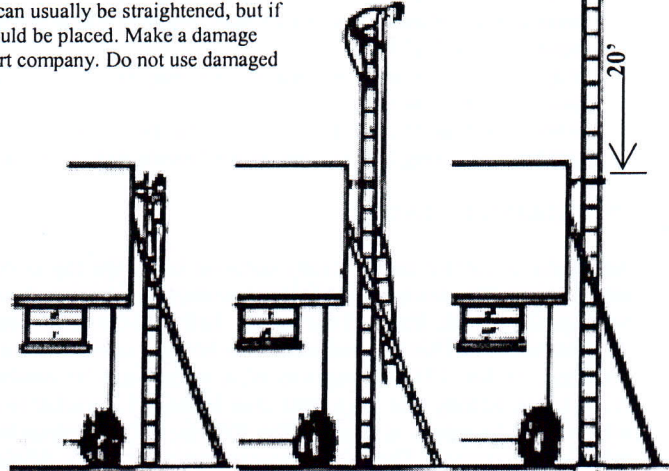
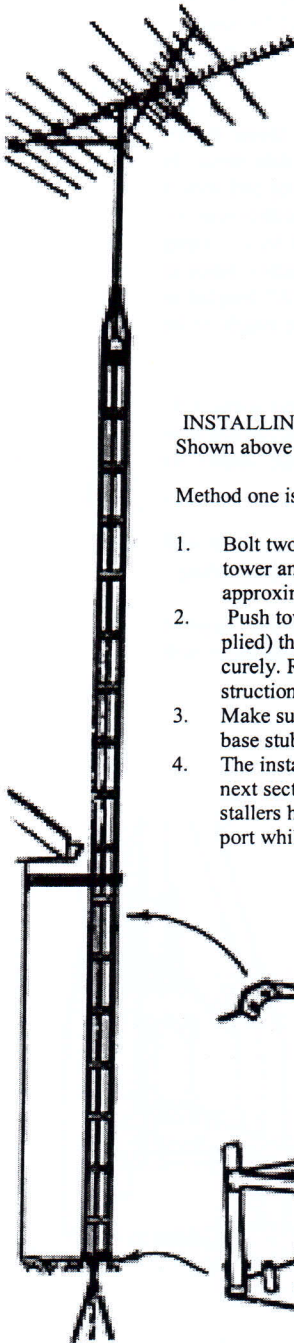


Fig. 1

Fig. 2

Fig. 3

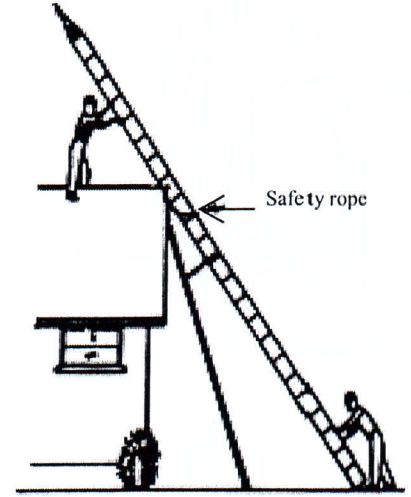


Fig. 4

**INSTALLING TOWER**

Shown above are two methods of installing GN Towers.

Method one is best used when only one person is doing the installing.

1. Bolt two sections together, attach GNBS Base Plate to bottom of tower and attach House Bracket GNHUB or GNHB to tower in approximately the right position.
2. Push tower up to the house and screw 3/8" lag bolts (not supplied) through house bracket into house to another tower securely. Reinforcing with a 2 x 4 may be necessary if house construction there is weak.
3. Make sure tower is vertical with a level and then drive 3 DMBS base stubs into the ground through the 3 holes in base plate.
4. The installer wearing a safety belt, climbs the tower and pulls the next sections up using a rope and hook as in Fig. 2. Most installers hook their leg around the tower to give themselves support while they fit sections together. Tighten leg bolts securely.

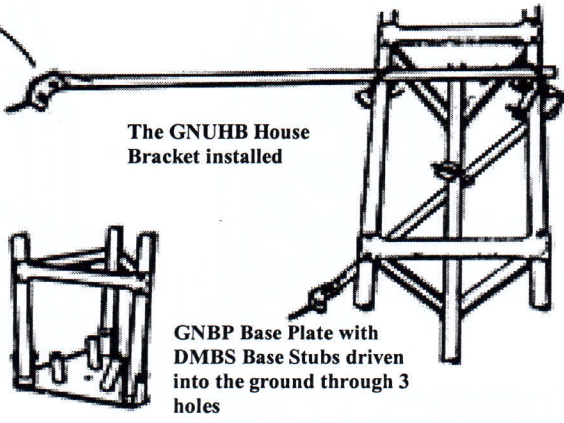
5. Install rotor as shown on the reverse side of this sheet. Connect lead-in to antenna, attach antennas to mast. Leave centre elements of antenna folded on one side, pull up side of tower and then unfold elements.

The alternate method of installing the tower requires at least two men. Fig. 4.

1. The tower is assembled completely on the ground and then the top of the tower is raised to the roof where the antenna and mast are installed.
2. The tower is then raised to its vertical position and the house bracket screwed into the house with two lag screws.
3. A safety bolt or strap should be looped around tower until house bracket is secured.

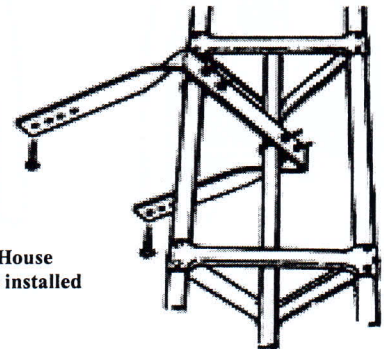
**LOAD LIMITS**

The total weight of TV and FM antennas should not exceed 17 lbs. plus 10 ft. mast and with or without rotor and with not more than 20 ft. or two sections of tower of house bracket. A large 82 channel antenna or medium size VHF antenna and UHF antenna would weigh about 17 lbs. Shorten mast when installing large antenna. Guy wires must be used if larger loads are required or if cross bar mounted antennas are installed.



The GNUHB House Bracket installed

GNBP Base Plate with DMBS Base Stubs driven into the ground through 3 holes



GNHB House Bracket installed

## Delhi GN TUBULAR TOWERS

### INSTALLING MAST

1. A U-Bolt assembly with "L" bracket is supplied for installing the mast. The assembly is bolted to the rotator plate ready to clamp the mast. Maximum mast size is 1-1/2" O.D.
2. Adjustments to make the mast vertical may be made by moving the "L" bracket in the slotted holes.
3. After inserting the mast and tightening the U-Bolt nuts securely, also tighten the locking bolt and nut on the bearing stub at the top of the tower.

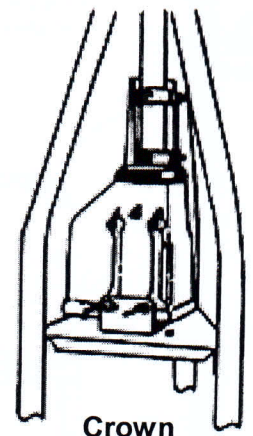
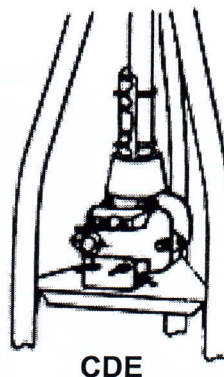
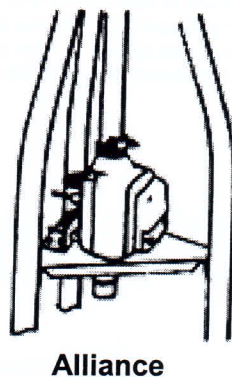
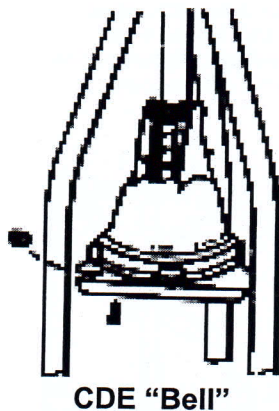
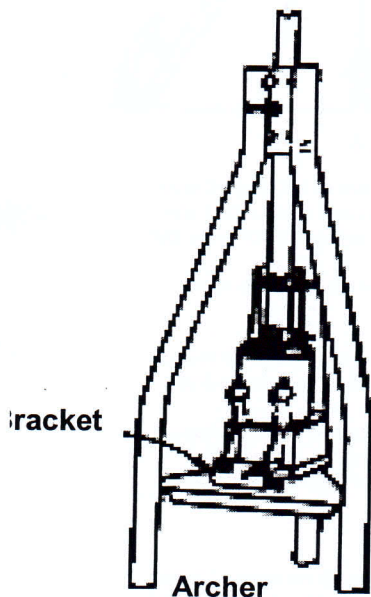
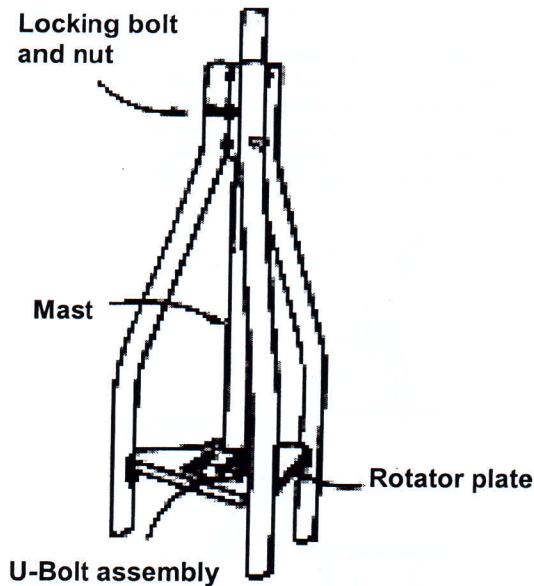
### INSTALLING ROTATORS

Any make of rotator can be neatly installed inside the top of the tower on the rotator plate. The tower thrust bearing protects the rotator from side thrust to increase service life. Back off the locking bolt from the thrust bearing and lock it by tightening nut. This bolt can be used to hold the mast if rotator is removed for servicing. Archer, CDE, Crown and RCA rotators can be installed by reversing "L" bracket, bolting it to the rotator then bolting "L" bracket to slotted holes in rotator plate, so rotator is centred. The Alliance rotator mounts to "L" bracket in non-reverse position. The plastic terminal housing on the Alliance needs to be shortened to clear the rotator plate.

CDE "Bell" rotators can be installed by discarding the cast base and using 1/8" thick washers (supplied) as spacers between rotator and tower plate. Attach control wires to rotator and feed through centre hole on mounting plate. Insert the four 1/4-20 bolts with rotator and tighten securely.

The "Bell" rotators centre a 2" O.D. mast perfectly so a 1-1/2" O.D. mast will require 1/4" spacers around the mast so it will line up with tower thrust bearing.

The Crown heavy duty rotator can be installed by using the template supplied and drilling three 9/32" O.D. holes in plate for bolting rotator. Three bolts will hold this rotator securely. This rotator centre a 1-1/2" O.D. mast.



**Please note:** A qualified structural engineer should be consulted prior to mounting an antenna on a tower or support structure