

## ROTOR INSTALLATION

Most makes of rotors can be installed on the rotor plate inside the top tower section of the TBX, THBX and THDBX towers. There is a short piece of tubing furnished with each tower that can be used as a thrust bearing (for 1<sup>1</sup>/<sub>4</sub>" mast) with the mast clamp installed on the top plate as is described under the heading Mast Assembly. Do not install rotors on the THDBX top plate – must be installed on the rotor plate.

For the THBX – Heavy Duty and the THDBX – Extra Heavy Duty Towers, when a rotor is used a 4" piece of tubing or pipe with an interior diameter (I.D.) larger than the outer diameter (O.D.) of the mast can be installed in the pipe flange clamp and used as a bearing for the mast to turn.

## ROTOR ASSEMBLY

Some inline model rotors mount directly to the rotor plate. The lower housing of the rotor is not used when this is done. The necessary holes for mounting most rotors are pre-punched in the plate itself and the bolts furnished to bolt the lower housing to the upper housing (4<sup>1</sup>/<sub>4</sub>"x1" bolts) are to be inserted from the bottom of the plate upward and into the rotor. It is desirable to place <sup>3</sup>/<sub>8</sub>" nuts to act as spacers between the rotor plate and rotor.

These nuts will prevent the terminals of the rotor and the rotor wire from shorting on the rotor plate. An 8" piece of tubing is furnished with each tower. It can be installed into the clamp (V-clamp and L-brackets furnished for offset rotor installation only) for the offset type rotors. It is necessary to reverse the clamp assembly (to face outside of the tower) opposite that of installing a standard mast to the rotor plate. Some rotors can be mounted directly to the L-bracket or to the 8' mast as previously described.

Also, some rotors mount beneath the rotor plate. It will be necessary to increase the <sup>1</sup>/<sub>4</sub>" holes in the rotor plate to <sup>3</sup>/<sub>8</sub>" holes to use the <sup>3</sup>/<sub>8</sub>" bolts furnished with these rotors.

## MAST ASSEMBLY

1. Two U-bolt assemblies with L-brackets are supplied for installing the mast. These L-brackets are bolted through the slotted holes on the rotor and top plate with the short legs of the L-bracket toward the outside of the tower.
2. Run the U-bolt through the open side of the formed V-clamp and into the L-bracket placing the <sup>5</sup>/<sub>16</sub>" nuts and washers on the U-bolt loosely.
3. To install the mast, place one end of it through the upper U-bolt assembly end plate and slide it down into the lower U-bolt assembly to hold the mast.
4. Adjustments to make the mast vertical may be made by moving the L-bracket in the slotted holes. The THBX and THDBX towers are furnished with a mast clamp installed on the top plate made from a pipe floor flange, which is provided with three bolts to be used as set screws to secure the mast. The box of hardware consists of one U-bolt assembly as described above and it can be installed on the lower plate as is instructed above.

**BE CAREFUL AND USE SAFETY PRECAUTIONS DURING ALL INSTALLATIONS.**

# TBX TOWERS

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