

Checklist for T50-HD Tower

This is a checklist. It is not a replacement for the full manual.

Site Selection

- Stay at least 120 ft from power lines
- Level and firm ground under the trailer
- Clear 40 ft radius around the tower for guying
- Wind <10 mph

Initial Set Up

- Uncouple the trailer from the tow vehicle by releasing the safety pin on the coupler and positioning the tongue jack and raising the coupler from the ball. Release safety chains and electrical cables and drive the tow vehicle away.
- Remove hitch pins from the three (3) rear outriggers and pull out until the second set of pinholes is visible. Reinsert the pins with outriggers extended. (You may find that using the horizontal holes is easier.)
- Repeat for the two (2) front outriggers.
- Remove jacks from storage box and install on the four outriggers.
- Level the trailer using the bubble level at the rear of the tower support upright. Recheck with 4' level if available.
- Using the ground rod and cable, ground the tower.

Tower Erection Preliminaries

- Remove through bolts from upper and lower mast adapter plates and insert mast through upper plate mast adapter. Seat on lower plate mast adapter, align with bolt holes and reinsert & tighten bolts.
- Feed coax through middle of smallest section to the mast.
- Mount antenna to mast and connect coax.
- If attaching a wire antenna, attach to a guy ear on the tower. Do not attach to the mast tube as a side load may bend it.
- Attach color coded guy wires to corresponding color coded guy ears using the screw pin shackle. Tighten shackle with pliers.
- Lay out guy wires to approximate positions.
- Check winch cable to ensure that the cable is properly seated in each pulley sheave.
- Apply tension to the cable with the winch

Erecting to Full Height

- Do not attempt to raise the tower if the wind speed is greater than 10 mph.
- Loosen and remove hold down restraining cables used for transportation.
- Remove the nut from the latch bolt.
- Using the manual brake winch crank the tower to the vertical position. The center of gravity will shift and it may be necessary for a person to support the load of the tower as it approaches vertical.
- There must be a load on the cable for the brake to operate properly. Do not continue to move the

winch handle counter-clockwise if the cable does not play out.

- Secure tower in vertical position with tower lockdown bar. Tighten nuts with wrenches in storage box.
- Undo the red safety strap and completely remove.
- Use the 3 ft level to check that the tower is vertical.
- Raise the tower, there is a safety stop that engages the rungs every 20 inches.
- Tower is fully extended when the black and orange tape on the outer vertical legs are aligned with the bands on the inner section. Do not over extend.
- At maximum height the rung marked with orange reflective tape is just above the safety stop mechanism. Allow the tower to lower until the inner section rung with the orange reflective tape rests on the safety stop.
- Snug the guy wires starting with the lowest set. Lowest set should be tightened securely, upper sets loosely.

Erecting the Tower to Less than Full Height

- For a 3-section tower, attach the blue color guy ends to the blue guy ears. Attach the yellow color guy ends to the red guy ears. Do not attach guys to the middle tower section.

Lowering the Tower

- Slacken all guy except for the lower set.
- Crank up the tower slightly until the safety stop can be swung away by pulling on the orange cord.
- Lower tower while keeping tension on the orange cord to keep the safety stop clear. There must be a load on the cable for the brake to operate properly. Do not continue to move the winch handle counter-clockwise if the cable does not play out.
- When lowered, reattach the red safety strap around the two (2) inner sections.
- Remove guy wires
- Remove nut from the latch bolt on the tower lockdown bar. (Be sure to retighten the nut with a wrench so it won't work free during transport.)
- Lower the tower to the horizontal position and secure with the hold down cable. Be sure that locking mechanism on the cable is engaged.
- Remove coax cable, antenna, guy wires and put the mast in the towing position.
- Remove all guy wires, coil and return to color-coded pouches.
- Raise the front leveling jacks until the weight is on the tongue jack.
- Remove front leveling jacks and stow.
- Remove the rear outrigger levelling jacks and stow.
- Remove the hitch pins from the outriggers and slide them in to their stowed position. Reinsert the hitch pins.
- Hook up trailer to tow vehicle, recheck all securing straps and safety wires.

Towing Preparation

- Hook up the trailer to the vehicle.
- Fully retract and lock the front tongue jack.
- Attach safety chains.
- Plug in the electrical connector and check lights for proper functioning.