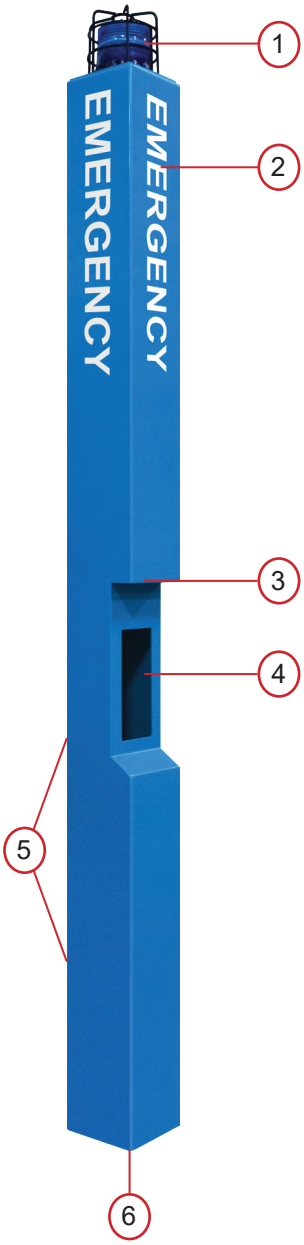
TW-TA and TW-TE

Tall Aluminum Tower Instructions

TW-TA and TW-TE are tall lightweight aluminum towers with ASSISTANCE or EMERGENCY lettering designed to house IX|IXG Series emergency call stations. They include a strobe light and panel lighting for visibility, and are secured to the ground using the TW-MKL L-bracket mounting kit (sold separately). This installation manual provides instructions on how to install the towers, as well as how to wire the strobe light and panel lighting.

IMPORTANT: To ensure safety and prevent damage, it is recommended that any lifting of the tower be done by two people.



Names and Functions

1. Strobe light
2. EMERGENCY/ASSISTANCE lettering (4 sides)
3. Panel lighting
4. Intercom mounting receptacle
5. Access panels (back side of tower)
6. UL 514-A listed electrical box (inside base)

TW-TA/TE Package Contents

Four 5/16"-18 x 1-1/4" large button head tamper resistant screws
One T40 Torx hex bit for 5/16" screws
One T25 Torx hex bit for access panel screws
One strobe light (packaged separately)
One container of anti-seize lubrication

TW-MKL Package Contents

Four L-bolts
Eight 3/4" hex nuts
Eight 3/4" washers
One printed template
One assembly instructions

Specifications

Material:	Aluminum 6061-T6
Dimensions:	112" H x 8" W x 8" D
Weight:	68 lbs

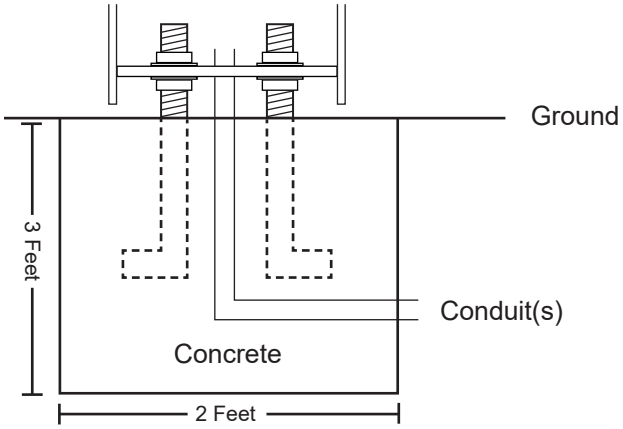
TW-MKL Installation

Intercom and electrical wire conduits should be run through the foundation and into the center 4" diameter hole of the tower. These cable runs must be run separately, not in the same conduit. It is the responsibility of the installer to ensure that all applicable electrical codes are met.

Pour the foundation at least 2 feet in diameter and 3 feet deep and in accordance with local building codes and frost line.

Install the four L-bolts below the grade with 5" projecting above the grade (see drawing below). Use the template to properly position the L-bolts within the concrete foundation.

Once the foundation has set, remove the template. Install one 3/4" hex nut and one washer on each L-bolt 2 to 2-1/2" above grade to the top of the washer. This will allow a 1/2" air gap between the foundation and tower base to allow airflow and prevent moisture problems. Verify that the nuts are level.



It is recommended to transfer the provided template to a piece of wood between 1/2" and 1" thick. This will make it easier to properly position the L-bolts into the poured concrete foundation.

Tower Mounting

Prior to installing the tower onto the mounting bolts, it is recommended to install the top plate with the light cage. Feed the wires for the light through the hole on the top of the tower. **Apply the anti-seize lubrication to the threading of the 5/16" tamper resistant screws,** then use them to fasten the top plate to the tower. **These screws must be tight to ensure a water tight seal.** The strobe light will require a dedicated 24V DC power supply or the PS-POE. This will also be used to power the tower's LED illuminator, located above the intercom opening.

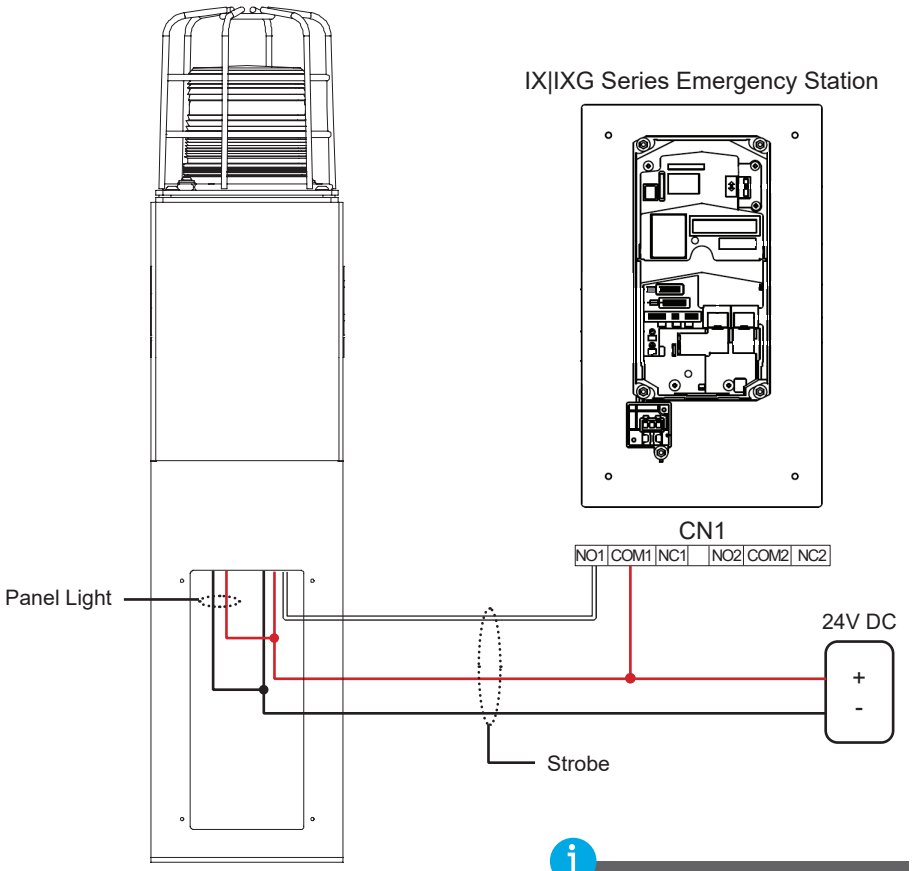
Remove the access panels from the tower. Carefully lift the tower onto the level hex nuts of the L-bolts, ensuring that the unit is oriented in the desired direction (access panels are on the back). Check that the tower is level at this point. Install the second set of nuts and washers on the L-bolts and carefully tighten them, securing the tower to the concrete foundation. Adjust as necessary.

Be sure to apply the provided anti-seize lubrication to the screws' threading before they are installed. Failure to use the anti-seize may cause corrosion and damage to the tower and screws.

Strobe Wiring

Locate the strobe wires and connect to the 24V DC power source.
Red to +24V DC (positive)
Black to -24V DC (ground)
White (trigger wire) to one side of a normally open (NO) relay on the emergency station. Connect the other side of the normally open (NO) relay to the +24V DC (positive) power source.

Locate the panel light wires and connect to the 24V DC power source.
Red to +24V DC (positive)
Black to -24V DC (ground)



Once connected to 24V DC, the strobe light will be steadily lit. Manually connecting the white wire of the strobe to the 24V DC + will cause the strobe light to flash.