AIPHONE

TW-SA and TW-SE
Aluminum Tower Instructions

Introduction

These instructions cover installing the alluminum towers using the TW-MKL, as well as wiring of beacon / strobe and panel light to a 24V DC source.

TW-MKL L-Bracket Mounting Kit

4 x L-bolts
8 x ¾" hex nuts
8 x ¾" washers
1 x printed template
1 x assembly intstructions

It is recommended to transfer the provided template to a piece of wood between ½" and 1" thick. This will make it easier to properly pisition the L-bolts into the poured concrete foundation.
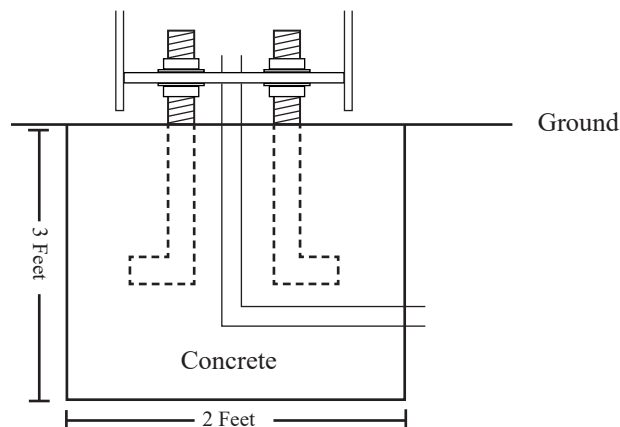
TW-MKL Installation

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 4 L-bolts below the grade with 5" projecting about the grade (see drawing below). Use the template to properly position the L-bolts within the concreate foundation.

Once the foundation has set, reomove the template. Install one ¾" 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 ½" air gap between the foundation and tower base to allow airflow and prevent moisture problems. Verify that the nuts are level.

For more details about the features and information above, please contact Technical Support.
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Tower Mounting

Remove the access panel from the tower. Carefully install the base module onto the level washers/nuts, ensuring that the unit is oriented in the desired direction (access panel in 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.

To install the top plate with the light cage, feed the wires for the light through the hole on the top of the tower. Fasten the top plate to the tower using the provided securing screws. The beacon/strobe 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.

Beacon / Strobe wiring

Locate the beacon/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)

IX Series Emergency Station

CN1

NO1 COM1 NC1   NO2 COM2 NC2

24V DC

Panel Light

Beacon / Strobe

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