

# **Installing the Outdoor Base Station**

Link Wireless Telephone System

Part Number: 72-0050-01

Issue B

Supplement to: 72-0075-01 and 72-0059-01

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Link Wireless Telephone System
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## 1. About This Document

The Outdoor Base Station is designed to withstand environmental hazards such as rain and excessive heat and cold. The outdoor enclosure is mounted into position and the Base Station is then installed within it. The entire unit is then referred to as an Outdoor Base Station.

This document covers the installation of the Outdoor Base Station in a variety of situations. It supplements the installation documentation for the Link Wireless Telephone System (Link WTS) using either the Link 3000 MCU (see *Link WTS – Link 3000: Installation*) or the Link 150 MCU (see *Link WTS – Link 150: Installation*). Refer to these documents for SpectraLink notes and disclaimers, UL information, FCC information, and Industry Canada (IC) notice.

## 1.1 Contacting SpectraLink

SpectraLink wants every customer to have a successful installation. Please refer questions to our **Customer Support Hotline at (800) 775-5330.** The Hotline is open Monday through Friday, 7:00 AM to 6:00 PM Mountain Time.

# Installing Flush Against a Wall or Hard Ceiling



### Note concerning shielded cable:

SpectraLink recommends the use of shielded cable for all external signal connections in order to maintain FCC Part 15 emissions requirements.



When installing Base Stations outside or in buildings other than the one containing the System Controller, take the following precaution:

If wiring for a Base Station exits a building—whether to reach an outdoor Base Station location or to reach a Base Station in another building—the wiring must be protected at both ends by a Quick Clip Fuse from Illinois Tool Works, Linx Division, model number SCP-2X2. The Quick Clip Fuse replaces the bridging clips on the 66 blocks for all four connections to the non-internal Base Station.

Items provided: Outdoor enclosure, Base Station

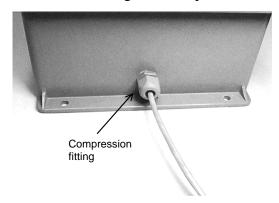
Items Needed: 4 anchor bolts (length and type depends on wall or ceiling material

Base Station is being mounted to)

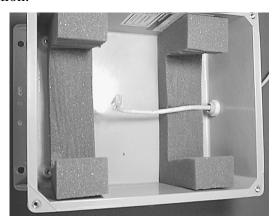
1. Mark and drill four holes into the wall or ceiling, using the mounting flanges of the outdoor enclosure as a guide.

2. Mount outdoor enclosure to wall or ceiling using anchor bolts. The outdoor enclosure can be mounted with the compression fitting in any direction.

3. Slide the Base Station cable through the compression fitting and tighten fitting.



4. Crimp an RJ45 onto the Base Station cable using the same wiring guide as the indoor Base Station.



5. Plug the RJ45 into the RJ48C connector.



6. Place the Base Station into the enclosure with the side of the Base Station with the mounting hole facing the wall or ceiling. The Base Station should fit tightly into the foam blocks.



7. Screw the outdoor enclosure lid back onto the enclosure.

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## 3. Installing on an I-Beam

Items provided: Outdoor enclosure, Base Station

Items needed: 4 - "Caddy" or "B-Line" 3/8" Beam Clamps

4 - ½" ½" x 20 bolts 4 - 2" ½" x 20 bolts 4 - ¼" x 20 nuts

- 1. Attach a beam clamp to the center of the top and bottom flanges on the outdoor enclosure.
- 2. Attach a second beam clamp to each of the beam clamps on the enclosure using a ½" ¼" x 20 bolt and a nut. (See Picture Below)
- 3. Attach the outdoor enclosure to I-Beam using the beam clamps attached in step 2.



See figures in Section 2 for pictorial data for the remaining steps:

- 4. Slide the Base Station cable through the compression fitting and tighten the fitting.
- 5. Crimp an RJ45 onto the Base Station cable using the same wiring guide as the indoor Base Station.
- 6. Plug the RJ45 into the RJ48C connector.
- 7. Place the Base Station into the enclosure with the side of the Base Station with the mounting hole facing the I-beam. The Base Station should fit tightly between the foam.
- 8. Screw the outdoor enclosure lid back onto the enclosure.

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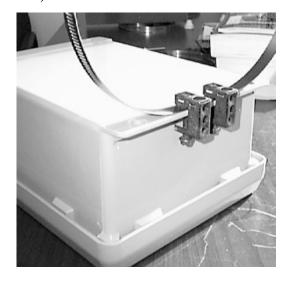
# 4. Installing on a Light Pole or Electrical Pole

Items provided: Outdoor enclosure, Base Station

Items needed: 4 - "Caddy" or "B-Line" 3/8" Beam Clamps

2 - EOG 100 or Equivalent Band Clamps

1. Attach one band to the top flange of the outdoor enclosure using 2 beam clamps (see the figure below).



- 2. Attach the second band to the bottom flange of the enclosure using the remaining two beam clamps.
- 3. Wrap the band clamps around the pole and tighten using the screw on the band clamps.

See figures in Section 2 for pictorial data for the remaining steps:

- 4. Slide the Base Station cable through the compression fitting and tighten the fitting.
- 5. Crimp an RJ45 onto the Base Station cable using the same wiring guide as the indoor Base Station.
- 6. Plug the RJ45 into the RJ48C connector.
- 7. Place the Base Station into the enclosure with the side of the Base Station with the mounting hole facing the pole. The Base Station should fit tightly between the foam.
- 8. Screw the outdoor enclosure lid back onto the enclosure.