



## Out-of-Sight Power Jack™

Cat. No. 40215

FOR INDOOR USE ONLY

## INSTALLATION INSTRUCTIONS



DI-000-40215-02A

### FEATURES

- **User Adjustable Voltage Settings** – This device accommodates cordless phones that are powered by a DC power source that ranges from 7 to 12 VDC. You can select the specific output voltage for your cordless phone by a simple slide switch. The slide switch has two positions and can be set to deliver 7 to 9 VDC and 9.1 to 12 VDC.
- **Interchangeable Plug Connectors** – Six interchangeable plug connectors are included with the product to connect to most cordless phones. Many other sizes and styles are also available from Leviton or a local electronics retailer.
- **Regulated Output Voltage** – Keeps the output voltage stable at any point along the input voltage range (96 to 135 VAC).
- **Over-Current, Over-Temperature and Short-Circuit Protection** – This product is manufactured to the parameters of UL 1863 and UL 60950 and is safe and reliable under these adverse conditions.
- **High Efficiency and low Standby mode power dissipation** – The typical steady state (with load) power consumption of this device is 8.5 W @ 74% efficiency. The typical Standby mode (no load) power dissipation of this device is 0.12 W.
- **Safety and Emissions Testing** – This product is compliant with UL 1863, UL 60950, FCC Part 15 Sub-part B Class B and FCC Part 68.

### DESCRIPTION

This device is a wall-mounted product that will provide a CAT 3 – telephone jack and low-voltage power supply needed to install a cordless telephone.

Before and After Functional Pictorial Representation:

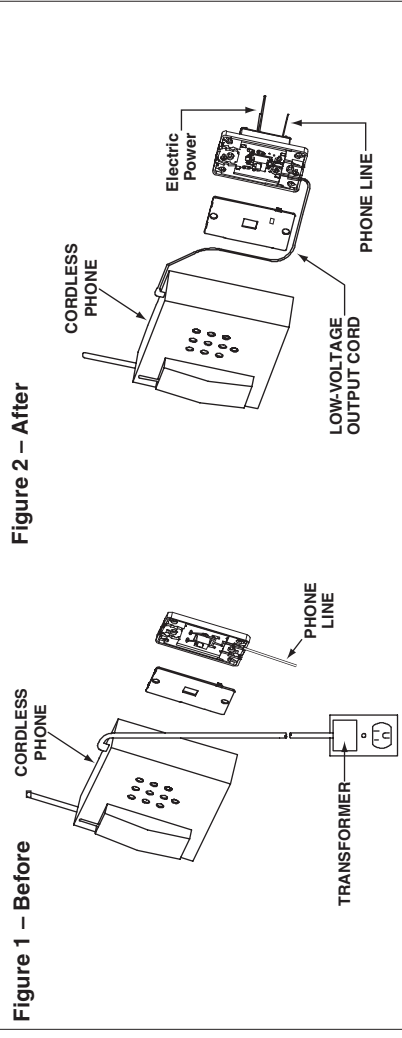


Figure 1 – Before

Figure 2 – After

### DEVICE ELECTRICAL SPECIFICATIONS

#### INPUT VOLTAGE (ELECTRIC POWER):

120 VAC nominal +/- 20% tolerance, 60Hz, 8.5 W

#### OUTPUT VOLTAGE (Switched with Slide Switch):

9.85 VDC ± 7 % (For Cordless Phones rated between 7 to 9 VDC @660 mA max.)

12.85 VDC ± 7 % (For Cordless Phones rated between 9.1 to 12 VDC @500 mA max.)

### FCC COMPLIANCE STATEMENT

This equipment has been tested and found to comply with the limits for a Class B Digital Device, pursuant to Part 15 of the FCC Rules. These limits are design to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment OFF and ON, the user is encouraged to try to correct the interference at his own expense.

### GENERAL INFORMATION

#### CAUTIONS:

- THIS DEVICE IS INTENDED FOR USE WITH TELECOMMUNICATION EQUIPMENT UP TO 6 W (7 TO 9 VDC @ 660MA MAX AND 9.1 TO 12 VDC @ 500MA MAX.) AND THAT USES A LOW-VOLTAGE DC OUTPUT POWER SUPPLY ONLY.
- BEFORE PROCEEDING, IF THE MANUFACTURER OF THE CORDLESS PHONE PROVIDED A PLUG-IN TRANSFORMER OR ADAPTER, CONNECT THIS TO THE PHONE ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS TO ENSURE THAT THE PHONE IS WORKING PROPERLY. IF THE PHONE IS NOT WORKING PROPERLY, STOP AND CONSULT THE MANUFACTURER OF THE PHONE BEFORE PROCEEDING WITH INSTALLATION.
- INSTALLING THIS DEVICE REQUIRES SOME EXPERIENCE WITH RESIDENTIAL WIRING PRACTICES AND HAS TO BE INSTALLED BY A PROFESSIONAL INSTALLER. CONFIRM THAT ALL CIRCUIT WIRING COMPLIES WITH LOCAL STATE FEDERAL CODES AND ORDINANCES. FAILURE TO FOLLOW INSTRUCTIONS EXACTLY MAY PERMANENTLY DAMAGE THE UNIT OR DEVICES THAT ARE CONNECTED TO IT; EXPOSE YOU TO DANGEROUS VOLTAGES AND VOID ALL WARRANTIES STATED AND/OR IMPLIED.
- THIS DEVICE IS NOT INTENDED FOR USE IN WET ENVIRONMENTS.
- **NOTE: DO NOT DISCARD THIS INSTRUCTION SHEET.**

### INSTALLATION

INSTALLATION OF THIS DEVICE REQUIRES: (1) ELECTRIC POWER CONNECTIONS, (2) COMMUNICATION WIRE CONNECTIONS, AND (3) LOW-VOLTAGE POWER CONNECTIONS. REFER TO FIGURE 3 FOR GENERAL WIRING INFORMATION.

#### WARNINGS AND CAUTIONS:

1. FOLLOW ALL WARNINGS, CAUTIONS AND INSTRUCTIONS MARKED ON THE PRODUCT AND INSTRUCTIONS SHEET. BASEMENT, OR NEAR A SWIMMING POOL.
2. DO NOT USE THIS PRODUCT NEAR WATER – E.G., NEAR A TUB, WASH BOWL, KITCHEN SINK OR LAUNDRY TUB, IN A WET VOLTAGES.
3. NEVER PUSH OBJECTS OF ANY KIND INTO THIS PRODUCT THROUGH CABINET SLOTS, AS THEY MAY TOUCH DANGEROUS VOLTAGES.
4. NEVER INSTALL ELECTRICAL DEVICES DURING A LIGHTNING STORM.

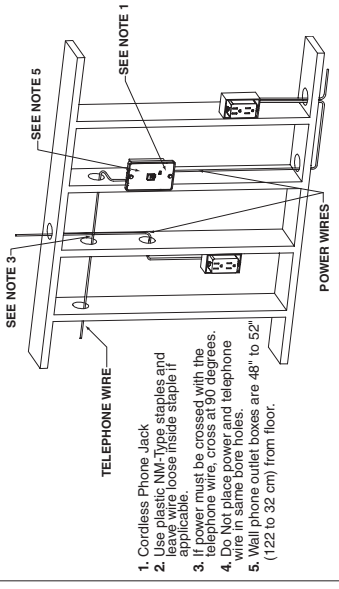
For Technical Assistance Call:  
1-800-624-3005 (U.S.A. Only)  
www.leviton.com



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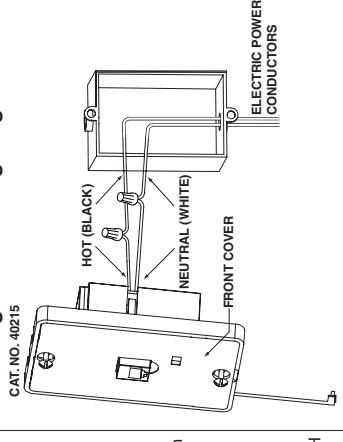


### Figure 3 – General Wiring Information



1. Cordless Phone Jack
2. Use plastic NM-Type staples and apply the wire inside staple if applicable
3. If power must be crossed with the telephone wire, cross at 90 degrees.
4. Do Not place power and telephone wire in same bore holes.
5. Most phone outlet boxes are 48" to 52" (122 to 32 cm) from floor.

Figure 4 – Wiring Diagram



3. Remove pre-cut insulation sleeves on BLACK and WHITE leads of device to expose bare copper strands.
4. Connect electric power lead wires per FIGURE 4 as follows: Twist strands of each lead tightly and, with electric power circuit conductor, push firmly into appropriate wire connector. Terminate ground wire as appropriate. Screw connectors on clockwise making sure that no bare electric power leads show below the wire connectors. Secure each connector with electrical tape.
5. Mount device such that the word "TOP" will be located on the top of the device under the front cover and connect the device to the wall box with the screws provided.
6. Restore power after completing the installation.

### (2) COMMUNICATIONS CIRCUIT CONNECTIONS

**WARNING:** TO BE INSTALLED AND/OR USED IN ACCORDANCE WITH APPROPRIATE ELECTRICAL CODES AND REGULATIONS.

**WARNING:** IF YOU ARE NOT SURE ABOUT ANY PART OF THESE INSTRUCTIONS, CONSULT A QUALIFIED ELECTRICIAN.

**WARNING:** HAZARD OF ELECTRICAL SHOCK. NOT INTENDED FOR INSTALLATION ON ENERGIZED WIRE OR CIRCUITS. EXTREME CAUTION SHOULD BE EXERCISED TO AVOID PHYSICAL CONTACT WITH BARE CONDUCTORS OR TERMINALS, AS RINGING VOLTAGE COULD BE IN EXCESS OF 100VAC. NEVER ATTEMPT REPAIR, INSTALLATION, OR MODIFICATION OF TELEPHONE EQUIPMENT OR WIRING SYSTEMS IF YOU WEAR AN ELECTRONIC HEART REGULATION DEVICE. IF YOU ARE UNFAMILIAR WITH TELEPHONE WIRING, CONSULT A QUALIFIED ELECTRICIAN.

### OTHER CAUTIONS AND NOTES:

1. Never install telephone jacks in wet locations unless the jack is specifically designed for use in wet locations.
2. Never touch uninsulated telephone wires or terminals unless the telephone line has been disconnected at the network interface.
3. Use caution when installing or modifying telephone lines.
4. The device accepts 2 pair 26-22 AWG communication wire.

### TO INSTALL:

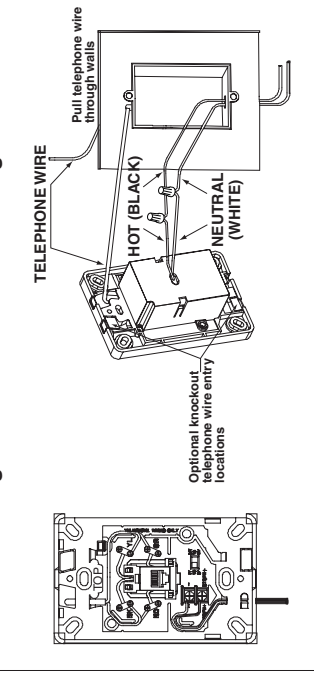
1. **WARNING:** TO AVOID FIRE, SHOCK, OR DEATH; **TURN OFF POWER AT CIRCUIT BREAKER OR FUSE AND TEST THAT THE POWER IS OFF.**
2. **Determine communication circuit wiring method for your installation location and follow Instructions.**

#### A. Recommended Wiring:

1. Remove front cover.
2. Wire the communications (telephone) wire so that it enters the device from outside of the wall box through one of the locations as shown in Figure 5, route communications (telephone) wire as shown.
3. Connect telephone wires to appropriate screw terminals as shown in "Step 3, TO INSTALL, Communication Circuit Wiring Methods".
4. Proceed with Steps 4-6 of the "TO INSTALL, COMMUNICATIONS CIRCUIT CONNECTIONS" section.

Please be sure to follow the requirements of EIA/TIA-570-A Residential Telecommunications Cabling Standard and NEC Article 800 Communications Circuits.

Figure 5 – Recommended Wiring





### B. Alternate Wiring for Masonry, Tile, and Brick walls:

1. Remove front cover.
2. Wire the communications (telephone) wire so that it enters the device from inside of the wall box through the location as shown in **Figure 6**, route communications (telephone) wire as shown.

Please be sure to follow the requirements of EIA/TIA-570-A Residential Telecommunications Cabling Standard and NEC Article 800 Communications Circuits. The power circuit conductors shall be routed within the enclosure to maintain a minimum of 0.25-in. (6.35-mm) separation from the communication circuit conductors.

Leviton Mfg. has provided a flexible tubing to cover the entire length of the telephone cable in the wall box (**Refer to Figure 6**). **NOTE:** The flexible tubing is required by the National Electrical Code to provide a separation between the electric, light, and power wires and the communication wires. Refer to Article 800-52 (a)(1)(c) (1) Exception No. 1 for details. The following instructions are shown below for product installation:

3. **WARNING: TO AVOID FIRE, SHOCK, OR DEATH, TURN OFF POWER AT CIRCUIT BREAKER OR FUSE AND TEST THAT THE POWER IS OFF.**
4. For this method, the electrical power conductor wires must be inserted from the **bottom** of the enclosure only, and the communication (telephone) wires from the **top** of the enclosure only.

5. Twist the electrical power conductor **WHITE** (Neutral) bare wire ends tightly together with the device **WHITE** wire and then repeat the same steps for the **BLACK** (Hot) wire. Terminate ground wire as appropriate. Secure the connections with wire connectors. Make sure to bend all the power wires to keep them in the bottom of the enclosure when you push the enclosure back into the wall.

6. Place tubing over telephone wires to allow at least 6 inches of exposure of the jacketed telephone wire. Pull telephone wires tight and align tubing so that it is not extended beyond the front face of wall box. Cut tubing as required. Place wire tie over tubing as far back in wall box as possible and tighten. Pull telephone wire through the opening in the device as shown in **Figure 6**. Mount device such that the word "TOP" will be located on the top of the device under the front cover and connect the device to the wall box with the screws provided. Pull telephone wire tight and wire device as shown in **Figure 6**. Connect telephone wires to appropriate screw terminals as shown in "Step 3, TO INSTALL, Communication Circuit Wiring Methods".

7. Proceed with Steps 5 and 6 of the "TO INSTALL, COMMUNICATIONS CIRCUIT CONNECTIONS" section.

### C. Surface Wiring:

1. Remove front cover.
2. Wire the communications (telephone) wire so that it enters the device from the outside surface of the wall through any of the 3 options as shown in the **Figure 7**, and route telephone wire as shown.
3. Connect telephone wires to appropriate screw terminals as shown in "Step 3, TO INSTALL, Communication Circuit Wiring Methods".
4. Proceed with Steps 4-6 of the "TO INSTALL, COMMUNICATIONS CIRCUIT CONNECTIONS" section. Please be sure to follow the requirements of EIA/TIA-570-A Residential Telecommunications Cabling Standard and NEC Article 800 Communications Circuits.

### (COMMUNICATIONS CIRCUIT CONNECTIONS, TO INSTALL CONT'D):

3. Communications Circuits Wiring Methods
  - Most 4-wire jacks use pair 1 and 2 color codes and will be wired as follows:

PAIR	TIP/RING	Band Stripe TP Wiring	Solid TP Wiring	Product Marking	PIN #
Pair 1	T	+	White/Blue	GR	5
	R	-	Blue/White	RD	4
Pair 2	T	+	Orange/White	BK	3
	R	-	White/Orange	YL	6

**NOTE:** Pins 1, 2, 7, and 8 (PR 3 and PR 4) are not connected.

4. Mount device such that the word "TOP" will be located on the top of the device under the front cover and connect the device to the wall box with the screws provided.

5. Place front cover on device.

6. Restore power after completing the installation.

### (3) LOW-VOLTAGE POWER CONNECTIONS

**WARNING:** TO BE INSTALLED AND/OR USED IN ACCORDANCE WITH APPROPRIATE ELECTRICAL CODES AND REGULATIONS.

**WARNING:** IF YOU ARE NOT SURE ABOUT ANY PART OF THESE INSTRUCTIONS, CONSULT A QUALIFIED ELECTRICIAN.

**WARNING:** THIS PRODUCT PROVIDES DIRECT CURRENT OR DC VOLTAGE. DO NOT USE WITH CORDLESS PHONES WHICH ARE NOT SPECIFICALLY IDENTIFIED AS REQUIRING DC VOLTAGE. DO NOT USE WITH CORDLESS PHONES THAT INDICATE AN AC VOLTAGE REQUIREMENT. DAMAGE TO THE DEVICE COULD RESULT.

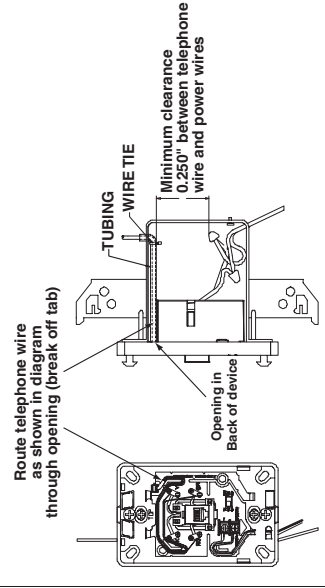
**CAUTION:** MAKE ALL VOLTAGE ADJUSTMENTS BEFORE YOU CONNECT THE POWER CORD TO CORDLESS PHONE.

### OUTPUT PLUG SET UP:

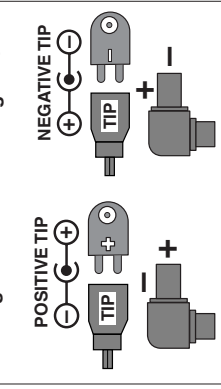
1. **REVIEWING LABEL AND PLUG TYPE ON ADAPTER USED TO POWER PHONE.**

Review the label or ID plate on the original phone manufacturer's adapter or power supply used to power the cordless phone and the DC power jack on back of your cordless phone.

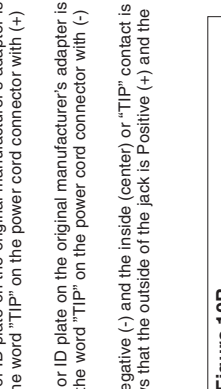
**Figure 6 – Alternate Wiring**



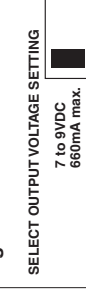
**Figure 8**



**Figure 9**



**Figure 10A**



**Figure 10B**



Determine the required output voltage setting for your cordless phone by using one of the following methods:

1. Review the label, instruction sheet or ID plate on the original manufacturer's power supply or adapter used to power the cordless phone from a regular household 120 VAC outlet. Look for the words "OUTPUT" which are then followed by a number and VDC. Example:

**OUTPUT: 12 VDC**

2. Use the voltage indication marked next to input jack on the cordless phone to be powered. Example:

**DC IN 12V or Vin = 12VDC**

**Select the appropriate voltage as follows:**

- If the cordless phone is rated for 7 to 9 VDC, 660 mA max. output current then slide the voltage select switch to **left** position (**refer to Figure 10A**).

- If the cordless phone is rated for 9.1 to 12 VDC, 500 mA max. output current then slide the voltage select switch to **right** position (**refer to Figure 10B**).

**NOTE: For secure low-voltage output power cord to phone,** secure/route low-voltage output power cord in back of phone as shown in phone manufacturer instruction sheet or lay on top of wall plate.

**NOTE: For new output cord installation.**

For any reason if you are wiring the new output power cord instead of using the pre-installed output wire cord in the product then perform the wiring as shown in **Figure 11**.

1. Connect the output power cord wire with no stripes or ribs to "-" terminal on the product.
2. Connect the output power cord wire with stripes or ribs to "stripe +" terminal on the product.

### OPERATION

After you have properly adjusted the output voltage and installed an interchangeable plug:

- Insert the output power cord (interchangeable plug) into the Cordless Phone's DC input jack. The cordless phone should have a display or light that illuminates when the power is properly connected. Follow the Cordless phone manufacturer's directions for the proper operation of the device to be powered.

- **IN CASE OF DIFFICULTY:**

If the light or display on the cordless phone does not illuminate, disconnect the cordless phone and check the interchangeable plug connection for correct size and orientation and repeat Steps 3 and 4 of the "OUTPUT PLUG SETUP" section.

**Figure 11**  
New Output Cord

