

1 Year Limited Warranty

Channel Vision Technology will repair or replace any defect in material or workmanship which occurs during normal use of this product with new or rebuilt parts, free of charge in the USA, for one year from the date of original purchase. This is a no hassle warranty with no mail in warranty card needed. This warranty does not cover damages in shipment, acts of God, failures caused by other products not supplied by Channel Vision Technology, or failures due to accident, misuse, abuse, or alteration of the equipment. This warranty is extended only to the original purchaser when purchased from an authorized reseller and a purchase receipt, invoice, or other proof of original purchase date will be required before warranty repairs are provided. Mail in service can be obtained during the warranty period by calling (800) 840-0288 toll free. A Return Authorization number must be obtained in advance and can be marked on the outside of the shipping carton. This warranty gives you specific legal rights and you may have other rights (which vary from state to state). If a problem with this product develops during or after the warranty period, please contact Channel Vision Technology, your dealer or any factory-authorized service center. Channel Vision products are not intended for use in medical, lifesaving, life sustaining or critical environment applications. Channel Vision customers using or selling Channel Vision products for use in such applications do so at their own risk and agree to fully indemnify Channel Vision for any damages resulting from such improper use or sale.

Specifications: (typical @25° C)

Operating Voltage: (From Hub) 24VDC

Cable Requirements: CAT-5 or better

Recommended Max. Cable Length: 250ft.

Operating Temperature: -10°C to +50°C

Specifications subject to change without notice.

FC Tested To Comply
With FCC Standards



This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.

 **CHANNEL VISION™**

• Intelligent Entertainment • Infrastructure • Security Solutions

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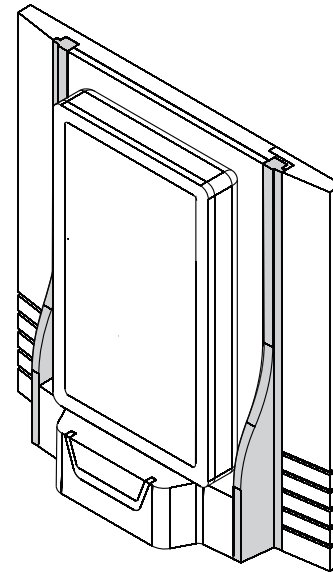
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500-380 Rev B

INSTRUCTIONS



AB-318

Micro-USB Bluetooth® Wall-Dock for A-Bus® Audio Systems

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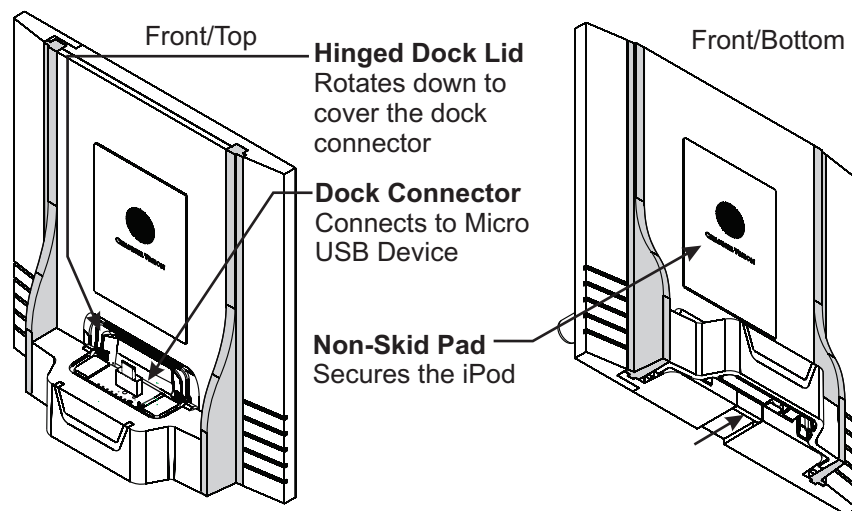
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The **AB-318** is an on-wall Bluetooth Micro-USB docking station for CAT5 audio systems. The non-skid pad helps to hold the music player in place. The AB-318 adds elegant and contemporary styling to make it the perfect choice for anyone who wants to enjoy their music without defacing the wall.

Features:

- ✍ Compatible with all A-BUS audio systems
- ✍ Charges Micro-USB devices
- ✍ Senses audio to automatically override the main audio source
- ✍ Uses CAT5 cabling
- ✍ Mounts in a standard 2-gang box
- ✍ Bluetooth Streaming

Wall Dock

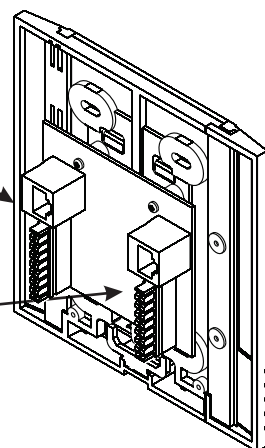


Input RJ-45 & 110 Connectors

Connect to CAT5 Audio Hub
CAT5 cable (only use one)

Output RJ-45 & 110 Connectors

Connect to CAT5 Audio Amplifier Input
CAT5 cable (only use one)



Connection Tips and Troubleshooting

NOTE: Maximum charging voltage is 5vDC 500mA. Do not plug in a device such as a tablet computer to this dock. Doing so can cause damage to either device and will void the warranty.

Problem: Not linking with Bluetooth device or Linking with Bluetooth device, but no audio plays.

Troubleshooting:

1. Restart Bluetooth Dock
2. Restart Bluetooth Device
3. Make sure Bluetooth device is in play mode

Warning: Do not adjust the volume all the way up if no audio is present. Doing so could damage your speakers if audio reconnects.

Problem: Audio quality issues

Troubleshooting: Verify you have connected the CAT5 cable correctly. Follow the TIA-568A standard at both ends. Mis-wiring can cause distorted sound, prevent the system from functioning, or possibly cause damage to the components in the system. Verify you have connected the speakers in phase. Follow the label on the product. Out of phase speakers can rob the system of its bass, especially when driving dual-voice-coil speakers. If no audio is heard, check to make sure that the audio source is playing, then press the power button on the keypad to make sure it is turned on.

Problem: Hum in System

Troubleshooting: Plug all parts of the system into the same outlet to see if the hum goes away. Try lifting the ground with a ground lifting plug.

Possible Cause: The different components in the system are connected to different electrical grounds. This forces electrical currents to find alternate paths to ground causing an audible 60Hz hum.

Solution: Plug products into an electrical circuit with a common ground.

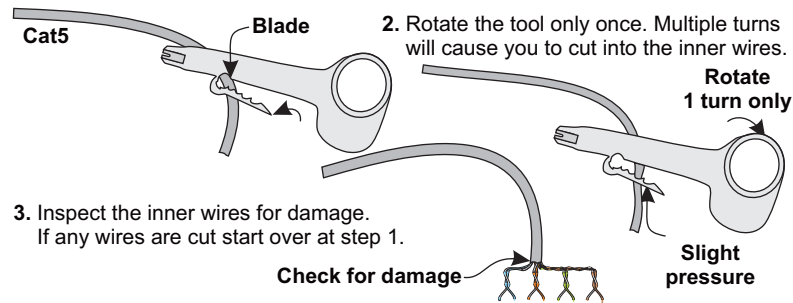
Additional Tips:

1. The AB-318 is designed to charge a Micro-USB device. The device screen should indicate that it is being charged. If this does not occur, make sure the power is reaching the volume control keypad (press the volume buttons to see if the LED indicators light up).
2. Observe wiring distance specifications. The maximum recommended wire length between the wall dock and CAT5 audio hub is 250 feet. Although the AB-318 may work at greater distances, extreme distances are not recommended because erratic performance may result due to the power loss caused by the CAT5 wire.
3. If you are experiencing problems with your Micro-USB device that occur even when it is not docked in the AB-318, then please contact the manufacturer of your device.

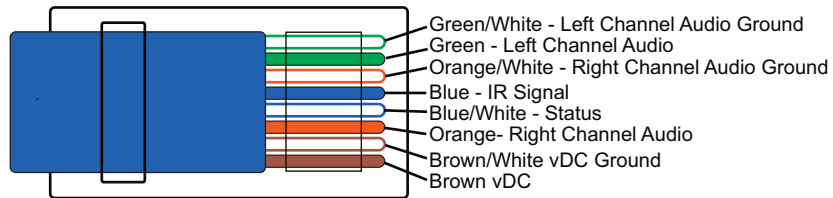
Stripping and Connecting CAT-5 Wire

CAT-5 cable should be stripped with a proper stripping tool, such as Channel Vision's J-110 tool.

1. Place the CAT-5 between the blade and the first notch of the J-110 tool.
2. Rotate the tool only once. Multiple turns will cause you to cut into the inner wires.
3. Inspect the inner wires for damage. If any wires are cut start over at step 1.

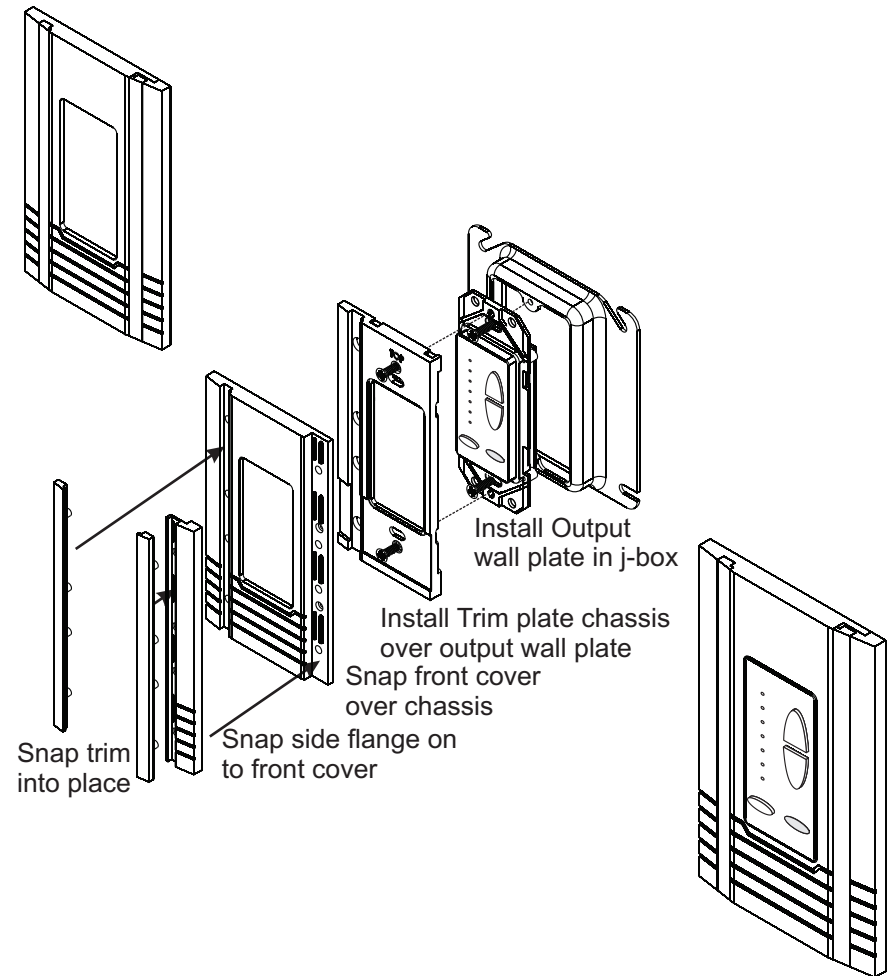


Pin-out



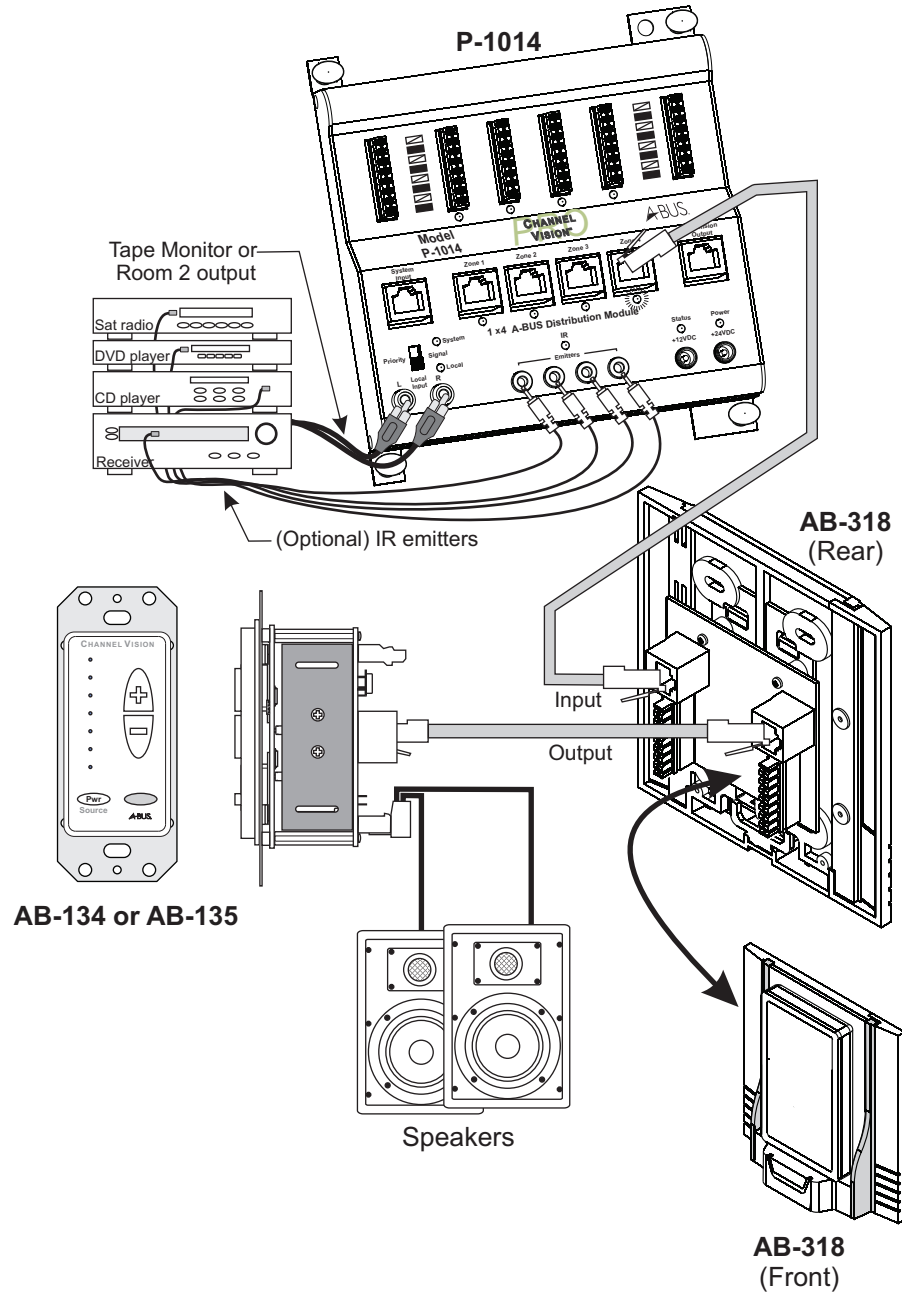
Top view:

Installing the Trim Plate Accessory

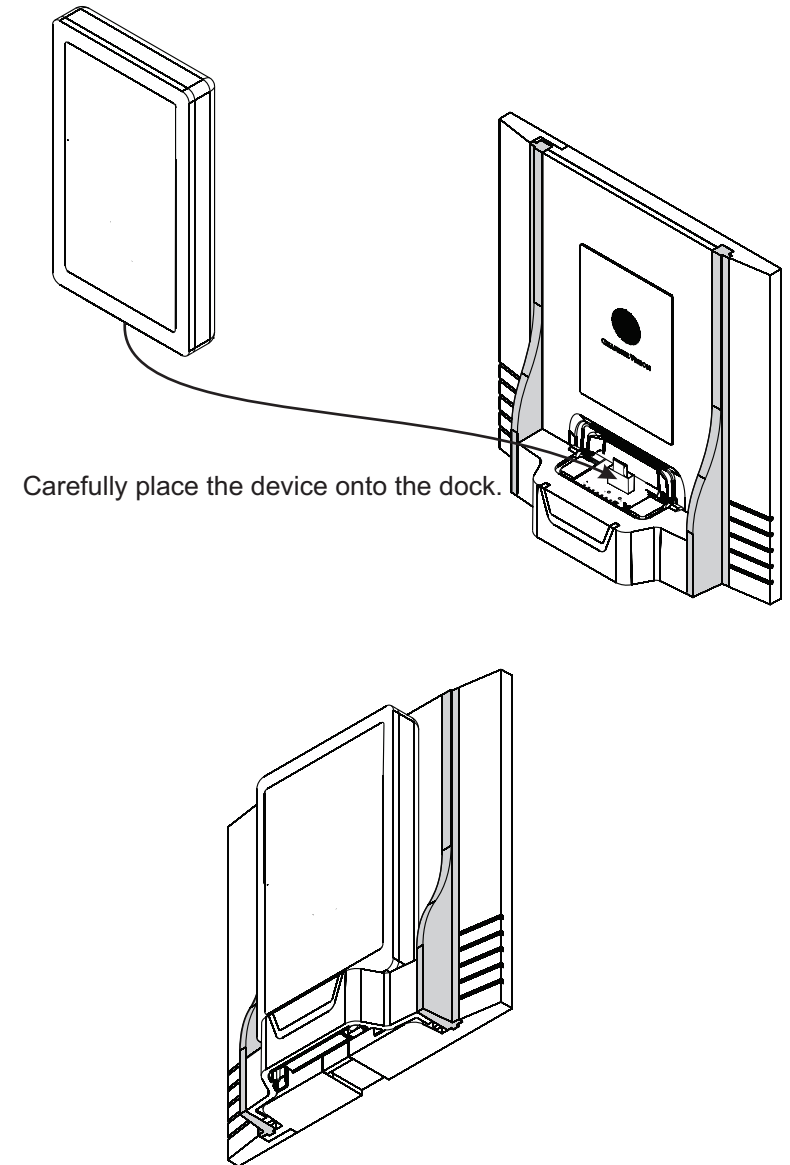


System Wiring Diagram

Using the AB-318 as a local source input module



Docking the Micro-USB device



Bluetooth Functionality

Pairing:

- A. Turn Bluetooth on in the pairing device, and scan for Bluetooth devices.
- B. To pair with the dock, click on “Android Dock-XXXX” (where XXXX is the last 4 digits of the MAC address) in the Bluetooth device scan list.
- C. The pairing device will request a PIN code. The default code is 1234.
- D. Enter the PIN code.
- E. Your device will pair with the iPod dock.
- G. Turn on music to begin streaming.

Disconnecting The Dock:

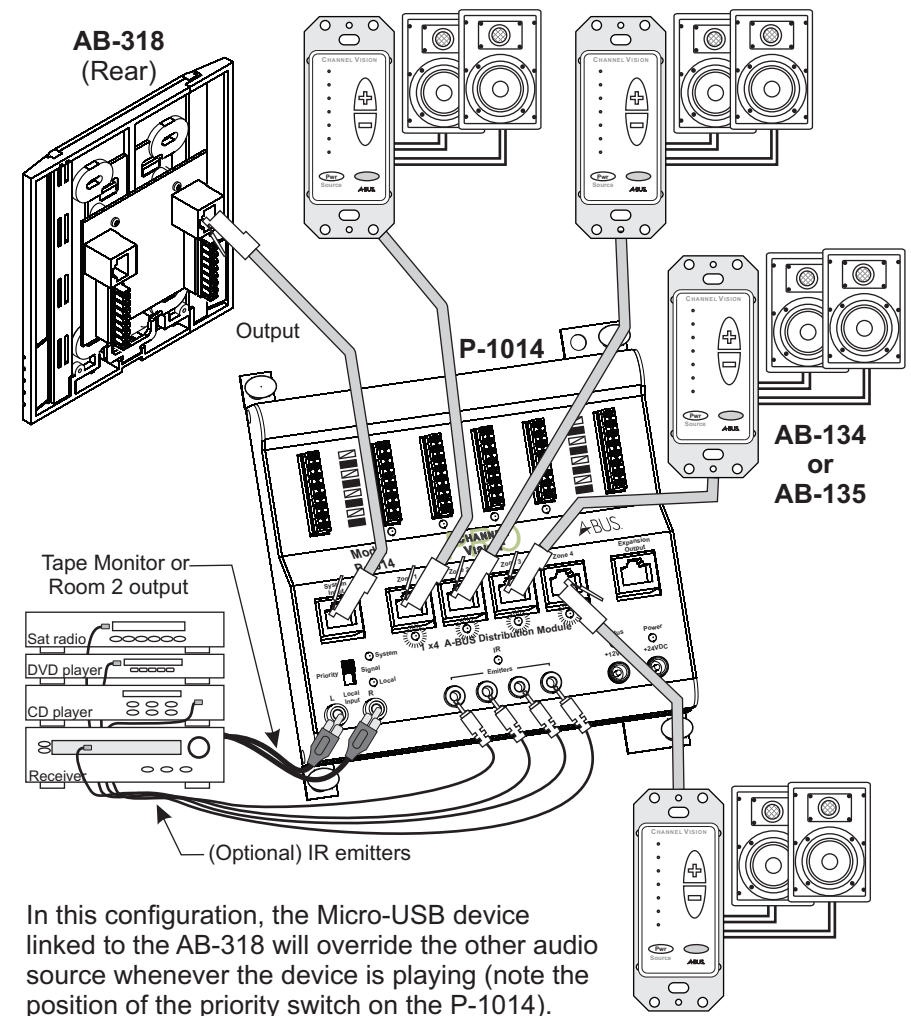
- A. To disconnect the paired dock from your device, disconnect the Bluetooth connection from the Bluetooth menu of the device.

Connecting The Dock To Another Device:

- A. Disconnect the paired dock from your device from the Bluetooth menu of the device.
- B. Turn on Bluetooth on the pairing device, and scan for Bluetooth devices
- C. Click on Android Dock-XXXX” (where XXXX is the last 4 digits of the MAC address) in the Bluetooth device scan list.
- D. The pairing device will request a PIN code.
- E. Enter the PIN code. The default code is 1234.
- F. Pairing success.
- G. Turn on music to begin streaming.

System Wiring Diagram

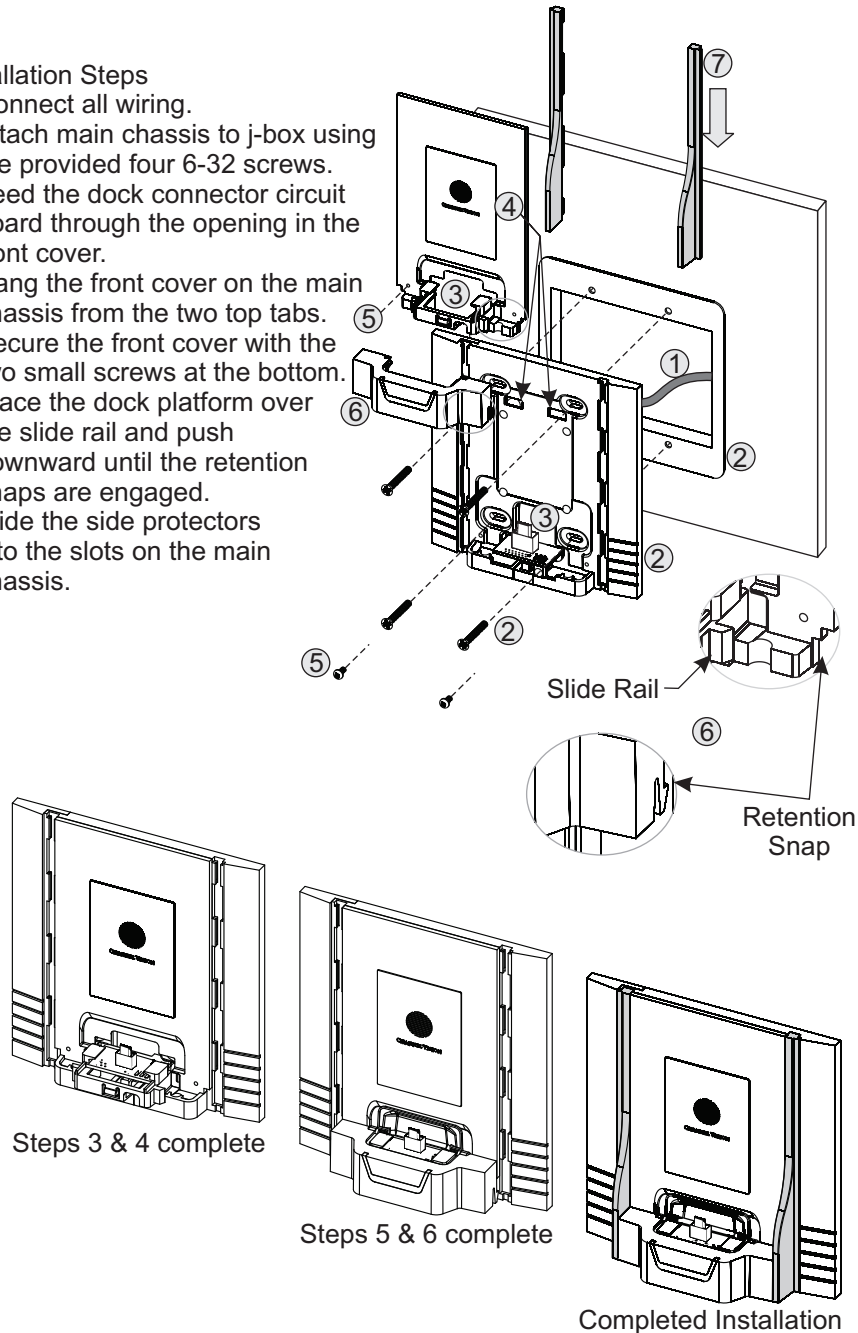
Using the AB-318 as a main source input module



Installing the Wall Dock

Installation Steps

1. Connect all wiring.
2. Attach main chassis to j-box using the provided four 6-32 screws.
3. Feed the dock connector circuit board through the opening in the front cover.
4. Hang the front cover on the main chassis from the two top tabs.
5. Secure the front cover with the two small screws at the bottom.
6. Place the dock platform over the slide rail and push downward until the retention snaps are engaged.
7. Slide the side protectors into the slots on the main chassis.



Installing the Wall Dock (3-gang Installation)

In some installations it may be desirable to mount a single gang control keypad next to the AB-318. To accomplish this, the single gang trim plate can be installed next to the AB-318 in a 3-gang junction box.

Installation Steps:

1. Connect all wiring. Use the correct installation tools: J-110 tool, or 1014 crimp tool.
2. Install the keypad and single-gang trim plate in the far left position of the 3-gang junction box. (See details on page 3)
3. Leave off the right side flange and trim piece.
4. Install the dock in the left side of the 3-gang j-box. It will overlap and snap into the single gang trim plate. (See page 5 for details)

