For additional technical information, please visit our website at http://www.greyfox.com

For Technical Support, call toll free 877-GREYFOX or 412-920-6100
## Important Safety Precautions

READ ALL INSTRUCTIONS CAREFULLY AND COMPLETELY BEFORE INSTALLING THE GREYFOX CAT 5 INTERCOM SYSTEM.

Throughout the following safety precautions and instructions the term “component” will be used to indicate one or all of the following: Intercom Module, Main Console Unit, Room Unit, or Door Unit.

**Pay special attention to any information that is preceded with this symbol. This signifies important instructions that must be followed.**

- These installation instructions were designed for use by an authorized installer only. Do not attempt to service, move, or change any component of this system unless you are qualified to do so.
- This system must by installed by an authorized Greyfox Installer and must conform to all local building and electrical codes.
- **Do not** apply power to the Intercom Module until all Cat 5 Intercom System components have been installed and all wiring has been properly terminated.
- **Do not** attempt to terminate, change, or un-install any wiring without first turning off power at the Intercom Module which is located in the Greyfox enclosure. Unplug the power transformer that is powering the Intercom Module from the power outlet before proceeding with wiring terminations or changes.
- Install each component of this system away from heat sources such as heating ducts/registers, stoves, or any other heat source.
- **Do not** install any component in a return air duct.
- The Cat 5 Intercom Module and any other component module were designed to be installed into a Greyfox enclosure. This enclosure must be installed in a cool dry area and must be installed according to its installation instructions. **Do not** install a Greyfox enclosure or any Greyfox module or device in an unheated garage, attic, or outside wall.
- **Do not** expose any Cat 5 Intercom System component that was designed for indoor use to moisture. Doing so can create electrical hazards or render the component unusable. Exposure to moisture will also void the warranty on the system.
- **Only use** Greyfox Systems authorized components, modules, and devices with the Cat 5 Intercom System. Not doing so will void the warranty of the system.
- **Only use** a damp cloth to clean the cover plates of the system components.
- **Do not** use vacuum cleaners, liquid or aerosol cleaners.

**Save these instructions for future reference.**

### Table of Contents

**Important Safety Precautions** .................................................. 1
**System Components Overview** .................................................. 2
  Required Components .......................................................... 2
  Optional Components .......................................................... 2
**Wiring Specifications** ................................................................ 3
  Wiring Guidelines ................................................................. 3
  Intercom Unit Placement Tips ................................................ 4
  Termination Instructions ........................................................ 4
**System Wiring Overview** ............................................................ 5
**Pre-Wiring (Rough-In) the Cat 5 Intercom System** ..................... 6
  Main Console Unit ................................................................. 6
  Indoor Room Unit ................................................................. 6
  Door Unit ............................................................................ 7
  Intercom Module and Door Chime ........................................... 9
**Final (Trim-Out) Installation** .................................................... 9
  Main Console Unit ................................................................. 9
  Indoor Room Unit ................................................................. 10
  Door Unit ............................................................................ 11
  Door Chime ......................................................................... 12
  Intercom Module .................................................................. 12
**Cat 5 Intercom System Operational Overview** ......................... 14
**Troubleshooting Guide** ............................................................. 18

**IMPORTANT NOTICE**

- **DO NOT MODIFY THIS UNIT** beyond those means described in this installation manual. This product, when installed as indicated in the instructions contained in this manual, meets FCC requirements. Modifications not expressly approved by Greyfox may void your warranty and authority to use the product.
- When connecting this product to accessories and/or other products, use only high quality cables. Follow all instructions.
- This product has been tested and found to comply with the requirements listed in FCC Regulations, Part 15 for class B devices. Compliance with these requirements provides a reasonable level of assurance that your use of this product in a residential environment will not result in harmful interference with other electronic devices.

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System Components Overview

Required Components

The following three components (in addition to a suitable power transformer or power distribution module) are required in order to have a functional Cat 5 Intercom System.

Intercom Module: This module is installed in a Greyfox Enclosure and can be considered the “brains” of the system. All other Room Units, Door Units, and the Main Console Unit are connected directly to this module via “home run” Cat 5 cabling. The module also supplies power to the entire Cat 5 Intercom System. This module is the only component of the system that requires an appropriate power transformer or power distribution module.

Main Console Unit: In addition to providing typical intercom features found with Room Units, this unit includes a bank of status LEDs which show, at a glance, which Room Units are talking, muted, or in monitor mode. It also includes a dedicated door release button (functional only if a door release device is installed), and talk hands free button. Only one Main Console Unit, per system, can be installed.

Room Unit: This unit provides basic intercom communication functions such as talk, talk to door (if Door Unit is installed), monitor, and mute. Up to 12 room units can be installed per system.

Optional Components

The following components are optional to the Cat 5 Intercom System. When added, these components will enable communications with visitors to the home.

Door Unit: This unit allows a visitor to the home to press the door chime button on the unit to notify the occupants of their presence (requires Door Chime to be installed). The occupants can then initiate two way communication with the visitor and open the door (requires door release device, not included).

Door Chime: This component installs as an add-on to the Intercom Module. It enables a chime to be heard on all units speakers throughout the Cat 5 Intercom System. Without this component, no chime will be heard through the system.

Wiring Specifications

Minimum cable rating: Category 5 UTP, 4 pair solid conductors (24 AWG), 100 ohm, 100 Mhz, General Purpose (CM), UL listed

Maximum length per run: 325 feet
Termination standard: T568A
Terminating plug type (where necessary): Solid Conductor RJ45
Terminating block type (where available): 110-style IDC

Wiring Guidelines

• Do not exceed 25 lbs. of force when pulling cable.
• Do not splice cables.
• Do not staple cables. Use wire ties with screw mounts to loosely secure cabling.
• Avoid running Cat 5 cable parallel to 120V/240V AC wiring or fixtures within 12 inches.
• Avoid “ganging” any intercom unit with a lighting dimmer switch. Maintain at least 12 inches of separation from dimmer switches.
• If you must cross AC wiring, do so at 90 degree angles and maintain at least 2 inches of separation.
• Maintain a minimum 1” bend radius.
• Do not untwist Cat 5 conductors more than 1/2” at any termination point.
• Keep cables away from objects such as HVAC ducts, and anything with sharp edges that could damage cables.
• Clearly label all cabling runs at both ends. Use the distance between your hand and your elbow as a guide to determine how far from the end of the cable run to label.

Intercom Unit Placement Tips
Carefully plan the placement of Room Units and the Main Console Unit before rough-in to avoid any feedback issues that are associated with audio devices.
• To minimize the likelihood of any feedback issues avoid placing units back to back on a common wall. If units must be placed on both sides of a common wall then do so in a manner which avoids feedback problems.
• Do not place intercom units within the same room in the home.
• Avoid any situations where the speaker of a unit points to and has a clear line of sight to another unit’s microphone.

Termination Instructions
All termination can be correctly completed by following the T568A pin assignments. It is important that you accurately terminate using T568A at all locations. There are two different types of terminations you will encounter when installing the Cat 5 Intercom System: RJ45 plugs and 110 punchdown blocks.

Refer to the diagrams below which show the correct T568A termination for both RJ45 plugs and 110 punchdown blocks.
Pre-Wiring (Rough-In) the Cat 5 Intercom System

The rough-in of the system should be completed during the construction phase of the home and prior to the installation by the home builder of any wall covering such as drywall. The following section will instruct you on the proper methods to pre-wire your cable and rough-in the opening for the various Cat 5 Intercom System components.

Main Console Unit

The procedure to rough-in the Main Console Unit is as follows:
• Since the Main Console Unit provides status LEDs for monitoring of the entire intercom system, it is recommended that this unit is installed where it is most likely to be used most. Traditionally in most homes, this unit is installed in the kitchen area. Verify the location with the homeowner before proceeding.
• The Main Console Unit mounts in a standard 3 gang electrical box. The use of an enclosed box rather than an open mud ring will help minimize the potential for feedback between units.
• Any UL approved metal or plastic gang box can be used.
• To avoid damage from debris during construction or after construction, use a gang box that will completely enclose the unit.
• The 3 gang box should be installed at the same height as the electrical switch boxes in the home.
• A total of TWO Cat 5 runs are required to operate the Main Console Unit.
• Run TWO Cat 5 cable runs from the 3 gang box directly to the enclosure where the Intercom Module will be installed. You must label both ends of the cable runs for the Main Console Unit to ensure proper termination during the trim-out. Label one cable “Main 1” and the other cable “Main 2”. Follow the wiring guidelines listed in this manual to ensure a quality cable installation.

Room Unit(s)

The procedure to rough-in the Room Unit(s) is as follows:
• Typically the Room Unit(s) will be installed on the same wall as the door to the room. Verify each Room Unit location with the homeowner before proceeding. Avoid installing Room Units in the same stud cavity on opposite sides of the wall to prevent feedback problems.
• The Room Unit mounts in a standard 2 gang electrical box. The use of an enclosed box rather than an open mud ring will help minimize the potential for feedback between units.
• Any UL approved metal or plastic gang box can be used.
• To avoid damage from debris during construction or after construction, use a gang box that will completely enclose the unit.
• The 2 gang box should be installed at the same height as the electrical switch boxes in the home.
• ONE Cat 5 run is required to operate the Room Unit.
• Run ONE Cat 5 cable from the 2 gang box directly to the enclosure where the Intercom Module will be installed. Label both ends of your cable run to indicate Room Unit number (ex: “Room Unit 5”). Follow the wiring guidelines listed in this manual to ensure a quality cable installation.
• Repeat these instructions for each and every room unit that will be installed in the system (maximum of 12).

Door Unit(s)

The procedure to rough-in the Door Unit(s) is as follows:
• Typically the Door Unit(s) will be installed on the exterior of the home next to an entrance door, where you would normally find a standard doorbell. Verify the Door Unit(s) location(s) with the homeowner before proceeding.
• Since the Door Unit will most likely be installed on the exterior of the home and will be exposed to weather conditions, these instructions must be followed to ensure a quality installation.

Brick or other cement-based material exteriors:
• The recommended box to use is a 2 gang outdoor weatherproof box. This box should be of the type that is made of heavy die-cast aluminum. Using a heavy die-cast aluminum box will provide adequate strength in a brick or cement-based exterior.

Vinyl or wood based siding material exteriors:
• If possible, use a heavy duty die-cast aluminum 2 gang box if it can be securely mounted to the interior framing. If this is not possible then it is recommended that you use a heavy duty metal 2 gang box that can be securely mounted to the interior framing of the home.
• To ensure the 2 gang box that will be used to house the Door Unit is roughed in correctly, communication with the building contractor who is responsible for the exterior finish of the home is highly recommended.

Brick or other cement-based material exteriors:
• The masonry contractor must be provided with specific instructions as to how the 2 gang box should be installed including location, correct positioning, and proper depth.
• If possible, clearly mark this information on the home's exterior insulation board or vapor barrier material to serve as a reminder to the mason.

• The correct positioning of the 2 gang box may not be obvious to the masonry contractor. Ensure that the masonry contractor knows which edge of the box is up and which edge is down so that the Door Unit can be installed in the correct vertical position.

• The 2 gang box should be installed by the masonry contractor so that it protrudes slightly from the face of the brick. The box should protrude no less than 1/8” but no more than 1/4” from the face of the brick.

Vinyl or wood based siding material exteriors:

• The 2 gang box can be roughed in to the exterior of the home by first cutting an opening through the exterior base material of the home that is slightly larger than your 2 gang box.

• The 2 gang box should then be securely mounted to the interior framing of the exterior wall and protrudes through the exterior wall at a depth that will need to be determined based on the type of siding that will finish the outside of the wall.

• Ideally, you would want the siding contractor to use flashing and make use of J-channel around the perimeter of the Door Unit and 2 gang box to provide an attractive and weatherproof siding installation. Siding contractors should use flashing and J-channel around the perimeter of the Door Unit just as they would with a window.

• Communication with the siding contractor is highly recommended to ensure a smooth installation.

• **ONE** Cat 5 run is required to operate the Door Unit.

• Run **ONE** Cat 5 cable from the 2 gang box directly to the enclosure where the Intercom Module will be installed. Label both ends of your cable run to indicate Door Unit number (ex: “Door Unit 1”). Follow the wiring guidelines listed in this manual to ensure a quality cable installation.

• Repeat these instructions for each and every Door Unit that will be installed in the system (maximum of 3).

**Please Note:** Up to three Door Units can be installed. The installation of a third Door Unit requires that you use the RJ45 jack that is labeled 12/DOOR 3. This will reduce the maximum number of Room Units that can be installed from 12 to 11.

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**Intercom Module and Door Chime**

The rough-in of the Greyfox Enclosure that will house the Intercom Module and Door Chime will need to be completed per the enclosure’s installation instructions. There is no further rough-in work required for the Intercom Module and the Door Chime since these components will mount directly in the Greyfox Enclosure during trim-out.

**Please Note:** The Door Chime mounts onto the Intercom Module and does not require its own, separate module bay.

---

**Final (Trim-Out) Installation**

The trim-out of the system should be completed after wall coverings have been finalized. The following section will instruct you on the proper methods to finish the installation of the various Cat 5 Intercom System components.

---

**Main Console Unit**

The procedure to trim-out the Main Console Unit is as follows:

• Locate the Cat 5 cable in the roughed in 3 gang box that you labeled as “Main 1”.

• Strip back approximately 2” of insulation from the Cat 5 cable.

• Untwist cable pairs but be sure to leave 1/2” twist in the pairs between the punchdown block and the start of the cable insulation.

• As shown in the diagram below, the Cat 5 cables must be terminated so that the cable is routed to the punchdown block from the center of the unit to the outside punchdown blocks. This will ensure that the unit can be installed into the gang box while maintaining proper bend radius.

• Following T568A wiring color code, place the pairs firmly into their appropriate positions on the punchdown block labeled “TO MAIN 1”. Ensure that the individual conductors are seated tightly enough to allow you to punch them down without having to hold them in place.

• Using a punchdown tool with a 110 style cutting blade, punch down each conductor firmly enough to allow any excess conductor to be cut away by the blade.
• Insert the Main Console Unit and the Cat 5 cables into the 3 gang box and secure the unit to the box using the 4 included screws. Attach a 3 gang decor plate to the unit to complete the installation.

• Repeat these instructions for the Cat 5 cable marked “Main 2” and terminate it to the punchdown block labeled “TO MAIN 2”.

Room Unit(s)

The procedure to trim-out the Room Unit(s) is as follows:
• Locate the Cat 5 cable in the roughed in 2 gang box that you labeled as “Room Unit X” where X is the room unit number.
• Strip back approximately 2” of insulation from the Cat 5 cable.
• Untwist cable pairs but be sure to leave 1/2” twist in the pairs between the punchdown block and the start of the cable insulation.
• As shown in the diagram, the Cat 5 cable must be terminated so that the cable is routed to the punchdown block from the center of the unit to the outside punchdown block. 
  This will ensure that the unit can be installed into the gang box while maintaining proper bend radius.
• Following T568A wiring color code, place the pairs firmly into their appropriate positions on the punchdown block. Ensure that the individual conductors are seated tightly enough to allow you to punch them down without having to hold them in place.
• Using a punchdown tool with a 110 style cutting blade, punch down each conductor firmly enough to allow any excess conductor to be cut away by the blade.

Door Unit(s)

The procedure to trim-out the Door Unit(s) is as follows:
• Make sure that the included weather proofing gasket is placed over the Door Unit circuit board and speaker before terminating the Cat 5 cable.
• Locate the Cat 5 cable in the roughed in 2 gang box that you labeled as “Door Unit X” where X is the door unit number.
• Strip back approximately 2” of insulation from the Cat 5 cable.
• Untwist cable pairs but be sure to leave 1/2” twist in the pairs between the punchdown block and the start of the cable insulation.
• As shown in the diagram, the Cat 5 cable must be terminated so that the cable is routed to the punchdown block so that the unit can be installed into a standard gang box while maintaining proper bend radius.
• Following T568A wiring color code, place the pairs firmly into their appropriate positions on the punchdown block. Ensure that the individual conductors are seated tightly enough to allow you to punch them down without having to hold them in place.
Using a punchdown tool with a 110 style cutting blade, punch down each conductor firmly enough to allow any excess conductor to be cut away by the blade.

Insert the Door Unit with the gasket in position and the Cat 5 cable into the 3 gang box and secure the unit to the box using the 4 included screws.

Repeat these instruction for any additional Door Units in your Cat 5 Intercom System.

**Door Chime**

The procedure to install the Door Chime is as follows:

The Door Chime circuit board installs onto the rear circuit board of the Intercom Module.

Place the Door Chime circuit board on the rear of the Intercom Module so that the 2 mounting holes on the Door Chime circuit board area seated on the Intercom Module threaded mounting studs.

Ensure that the Door Chime’s pin array socket is properly aligned with the pin array (labeled JP203) on the Intercom Module.

Apply slight downward pressure to the Door Chime circuit board to securely seat the pin array connections together.

Use the included hex nuts and washers to secure the Door Chime circuit board to the Intercom Module mounting studs.

**Intercom Module**

The procedure to install the Intercom Module is as follows:

Terminate all cable runs from Room Units, Door Units, and the Main Console Unit using RJ45 plugs. Follow the T568A wiring standard which can be found in the Termination Instruction section of this manual.

Please note: The proper termination of the RJ45 plugs is critical to the correct operation of the Cat 5 Intercom System. Incorrect termination could result in damage or improper operation of the Cat 5 Intercom System.

If you are using a door release device then you must terminate the two conductors from your door release device to the Intercom Module by routing the conductors through the mounting bracket or mounting bay before inserting the Intercom Module into its mounting bay or bracket. The door release device conductors are to be terminated to the blue mounting block located on the rear circuit board of the Intercom Module. Maintain correct polarity.

Please note: Only door release devices that operate using 12V DC and have a maximum current draw of 500mA are to be used with the Cat 5 Intercom System.

Insert the Intercom Module into the mounting bay or bracket in the Greyfox enclosure. Secure the Intercom Module by depressing each plunger at each corner of the Intercom Module.

DO NOT apply power to the Intercom Module until all RJ45 plugs are seated in the correct jacks on the Intercom Module.

Plug in all RJ45 connectors for Room Units into the appropriate jacks on the Intercom Module according to your cable labeling.

The Main Console Unit cables should plug into the correct MAIN jacks according to the cable labeling.

If 3 total Door Units will be used then the third Door Unit cable must plug into the jack labeled 12/DOOR 3 on the Intercom Module and you must remove the shorting block from the rear of the Intercom Module’s jumper pin array labeled JP100.

Apply power to the Intercom Module and verify system functionality.

Please note: The proper power supply or power distribution module to use with the Cat 5 Intercom System will vary based on the size of your system. Only use one of the two power supplies listed below based on the size of your system.

<table>
<thead>
<tr>
<th>No. Of Units (Combined Room or Door)</th>
<th>Part #</th>
<th>Power Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 to 8</td>
<td>F7726</td>
<td>12V DC 1.5 Amp</td>
</tr>
<tr>
<td>9 or more</td>
<td>F7725</td>
<td>12V DC 2.5 Amp</td>
</tr>
</tbody>
</table>
Cat 5 Intercom System Operational Overview

The following section explains the various functions and operational features of each component of the Cat 5 Intercom System.

Main Console Unit

The Main Console Unit acts as the central point of communication in the Cat 5 Intercom System. The Main Console Unit utilizes LEDs to show all room activity among other enhanced intercom features.

STATUS LEDs - Each LED indicates the status of each Room Unit in the system. A GREEN light indicates that the Room Unit’s Talk or Door button are currently depressed and someone is talking with the unit. A RED light indicates that the Room Unit is in Mute mode and that all speaker and microphone functions of the unit are disabled. An ORANGE light indicates that the unit is in MONITOR mode and its microphone is currently active.

TALK - Depressing this button will allow you to communicate with all other active units. Hold in the TALK button while speaking and let it go when you are done. Your voice will be heard on any active Room Unit within the system.

DOOR - Depressing this button will allow you to communicate with all Door Units that are a part of your system. Hold in the DOOR button while speaking and let it go when you are done. Your voice will be heard on any active Room Unit and all Door Units within the system.

ANSWER LED - This LED is located at the top of the keypad of the Main Console Unit. When lit this LED indicates that the microphone in the unit is active and anything you say will be communicated through the system. This LED will light when you are depressing the TALK or DOOR button.

TALK HANDS FREE - Depressing this button will allow you to communicate with all active Room Units in the system. Hold in the TALK HANDS FREE button while speaking and let it go when you are done. Your voice will be heard on any active Room Unit within the system and every Room Unit’s microphone will be activated which will enable other intercom users in the home to respond without requiring them to press the TALK button on their Room Unit. You will hear anyone responding to you in any room of the home where a Room Unit is active (not in mute mode). The Room Unit’s microphone stays active for 20-30 seconds unless the TALK HANDS FREE button at the Main Console Unit is activated again within this time period. This feature allows for hands free communication from the Room Units to the Main Console and is useful because no action is required by anyone on the receiving end (Room Units).

DOOR RELEASE - Depressing this button will engage the door release device (not included in the Cat 5 Intercom System) if a door release device is installed in conjunction with the Cat 5 Intercom System. Holding in this button will open the door which the door release device controls. Once you let go of the button, the door release device will disengage which will lock the door again.

VOL - There are two volume control keys with an associated volume level LED bar. There are 64 different volume levels which are adjusted up and down using these two buttons. Pressing the volume up button will increase the volume one level higher. You may not see the LEDs change until you press the volume up or down multiple times (approximately every 6th button press). You can also hold in the volume up or down button until you have reached the desired volume level. It is recommended that you keep the volume level in the middle position (3 LEDs lit) for optimum sound quality.

Room Unit

The Room Unit acts a point of communication in the Cat 5 Intercom System. There may be up to twelve total Room Units in the Cat 5 Intercom System. The Room Unit provides typical intercom features which enable quick communication throughout the home.

TALK - Depressing this button will allow you to communicate with all other active units. Hold in the TALK button while speaking and let it go when you are done. Your voice will be heard on the Main Console Unit as well as any active Room Unit within the system.
DOOR - Depressing this button will allow you to communicate with all Door Units that are a part of your system. Hold in the DOOR button while speaking and let it go when you are done. Your voice will be heard on any active Room Units, the Main Console Unit, and all Door Units within the system.

ANSWER LED - This LED is located at the top of the keypad of the Room Unit. When lit this LED indicates that the microphone in the unit is active and anything you say will be communicated through the system. This LED will light when you are depressing the TALK or DOOR button. This LED will be constantly lit when the unit is in MONITOR mode.

MONITOR - Press this button once to put the Room Unit in MONITOR mode. Press the button again to return the Room Unit back to normal mode. While in MONITOR mode, the microphone is constantly active, the speaker is disabled and any voice or noise within the room will be heard throughout the system. The LED to the right of the MONITOR button will glow green. Multiple Room Units can be in MONITOR mode at the same time. This function is useful for baby monitoring or other types of situations which require any voice or noise in a room to be heard throughout the system.

MUTE - Press this button once to put the Room Unit in MUTE mode. Press the button again to return the Room Unit back to normal mode. While in MUTE mode, both the speaker and microphone of the unit will be inactive and the LED to the right of the MUTE button will glow red. MUTE mode is useful for maintaining privacy in a particular room. Multiple rooms can be in MUTE mode at the same time.

DOOR RELEASE - There is no specific button on the Room Unit for the DOOR RELEASE function. However, by depressing both the TALK and the DOOR buttons and the same time, the Room Unit will engage the door release device (not included in the Cat 5 Intercom System) if a door release device is installed in conjunction with the Cat 5 Intercom System. Holding in the TALK and the DOOR button simultaneously will open the door using the door release device. Once you let go of the buttons, the door release device will be disengaged which will lock the door again.

VOL - There are two volume control keys with an associated volume level LED bar. There are 64 different volume levels which are adjusted up and down using these two buttons. Pressing the volume up button will increase the volume one level higher. You may not see the LEDs change until you press the volume up or down multiple times (approximately every 6th button press). You can also hold in the volume up or down button until you have reached the desired volume level. It is recommended that you keep the volume level in the middle position (3 LEDs lit) for optimum sound quality.

Door Unit

The Door Unit acts as a point of communication between the occupants of the home and visitors to the home. There may be up to three total Door Units in the Cat 5 Intercom System. The Door Unit provides a doorbell button which enables the occupants to be notified of a visitor via the Door Chime feature. The Door Unit features a weather resistant integrated microphone and speaker which allows communication with visitors before allowing them into your home.

DOORBELL BUTTON - When a visitor pushes this button, the Door Chime will be heard throughout the home at each active intercom unit. The occupants of the home can then press the DOOR button at any intercom unit to answer the door. The visitor will hear the occupant and will be able to announce who they are.
## Troubleshooting Guide

<table>
<thead>
<tr>
<th>Problem</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>No power to any intercom unit</td>
<td>- Check Intercom Module power LED to verify that it is lit. If not lit, make sure power transformer or power distribution module is plugged in.</td>
</tr>
<tr>
<td></td>
<td>- Verify that you are using the correct 12V power supply or power distribution module for your system. If you are not using a 12V power transformer that supplies enough current to the system then the unit may not power on.</td>
</tr>
<tr>
<td>No power to a specific Room Unit, Door Unit, or Main Console Unit</td>
<td>- Check your terminations at both the punchdown block on the rear of the unit itself as well as the RJ45 connector which plugs into the Intercom Module. Verify that your terminations follow the T568A wiring standard found in this manual.</td>
</tr>
<tr>
<td></td>
<td>- If your wiring terminations are in the correct order based on the color (T568A), then re-terminate your cable at both the rear of the unit and at the Intercom Module.</td>
</tr>
<tr>
<td></td>
<td>- Check and see if the unit will power on by plugging it into a different port on the Intercom Module.</td>
</tr>
<tr>
<td>Feedback or squeal noise from Main Console Unit, Room Unit, Door Unit speaker</td>
<td>- Verify unit placement. Avoid placing units back to back on a common wall. If units must be placed on both sides of a common wall then do so in a manner which avoids feedback problems. This can be achieved by ensuring that the audio from a unit's speaker will not be audible to a nearby unit's microphone.</td>
</tr>
<tr>
<td></td>
<td>- Feedback issues can be eliminated by adjusting the volume of a unit from a high level to a medium level.</td>
</tr>
<tr>
<td>Hum or buzzing noise that can be heard in some or all units of the intercom system</td>
<td>- Ensure that you are using the appropriate power supply for your size intercom system. See page 13.</td>
</tr>
<tr>
<td></td>
<td>- Verify that the proper wiring guidelines, which can be found earlier section of this manual, have been followed.</td>
</tr>
<tr>
<td></td>
<td>- Verify that all Cat 5 cabling does not run parallel to AC power lines within 12 inches, avoids running near fluorescent lighting fixtures, and avoids dimmer switches.</td>
</tr>
<tr>
<td>A Room Unit that is plugged into the port labeled “12/DOOR 3” on the Intercom Module is not functioning correctly.</td>
<td>- Look at the rear circuit board of the Intercom Module. Locate the pin array labeled JP100. The unit should be shipped with a shorting block installed on two of the pins. These pins are the topmost pins and are located directly underneath the label JP100. Make sure this shorting block is installed.</td>
</tr>
<tr>
<td>A third Door Unit is not functioning properly.</td>
<td>- Verify that the third Door Unit is plugged into the port on the Intercom Module that is labeled 12/DOOR 3.</td>
</tr>
<tr>
<td></td>
<td>- By default, the 12/DOOR 3 port on the Intercom Module is configured to operate a Room Unit. To use a Door Unit on this port, you must first remove the shorting block which is installed on the top two pins of the pin array labeled JP100 on the rear circuit board of the Intercom Module.</td>
</tr>
</tbody>
</table>