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Installation and Operating Manual



XL-660
Digital Access Control Station



Your "Partner" in Access Control

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Two-Year Limited Warranty

This Warranty applies to:

Summit Access Control "XL-660" access controls

What is Covered:

Any defects in materials or workmanship

Coverage Period:

Two years from date of purchase

What We Will Do:

If your Summit Access Control (Security Brands, Inc) product is defective and returned within two years of purchase, we will repair, or at our option, replace the unit at no charge to you. If we repair your Security Brands, Inc Product, we may use new or reconditioned parts. If we choose to replace your Security Brands, Inc product, we may replace it with a new or reconditioned unit of the same or similar design. The repair or replacement unit is warranted for (a) Ninety days (b) the remainder of the original two-year warranty period, whichever is longer.

Limitations:

Implied warranties, including those of fitness for a particular purpose and merchant ability (an unwritten warranty that the product is fit for ordinary use,) are limited to two years from the date of purchase. Security Brands, Inc will not pay for loss of time, inconvenience, loss of use of your Security Brands, Inc product, service calls, or property damage caused by your Security Brands, Inc product or its failure to operate, or any other incidental or consequential damages. Some States do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damages, so the above exclusions or limitations may not apply to you.

What We Ask You To Do:

To receive warranty service for your Security Brands, Inc product, you must provide proof of the date of purchase. Contact the original dealer or installer of the product and return your Security Brands, Inc product along with the receipt to them. If you have problems locating the dealer or installer, contact Security Brands, Inc at (303) 799-9757, and we will direct you to an Security Brands, Inc authorized dealer or distributor. If you ship your Security Brands, Inc product, you must prepay all shipping charges. We suggest that you retain your original packing material in the event you need to ship your Security Brands, Inc product. Upon return, include your name, address, phone number, proof of date of purchase, and a brief description of the operating system problem. This information needs to be included to receive an Security Brands, Inc "RMA" number.

What This Warranty Does Not Cover:

The warranty does not cover defects resulting from accidents, damage while in transit, alterations, unauthorized repair, failure to follow installation and operating instructions, misuse, fire, flood, or acts of God. Nor do we warrant your Security Brands, Inc product to be compatible with any particular external device or peripheral. If your Warranty has expired on your Security Brands, Inc product, or if your product is NOT covered, contact your dealer or installer for advice on whether we will repair your Security Brands, Inc product and other repair information, including estimated repair costs and additional charges that may be incurred. We, at our option, may replace, rather than repair your Security Brands, Inc product with a new or similar design if the damage to the unit is severe or extensive. This is the only Warranty we offer on this product, and it sets forth all of our responsibilities regarding your Security Brands, Inc product. There are no other express Warranties.

State Law Rights:

This Warranty gives you specific legal rights, and you may also have other rights which vary from State to State.

Parts Checklist

Parts that are included in the box include the following items. If any of the following items are missing, contact Security Brands, Inc.

QTY	Item
1	XL-660 Access Control Keypad
4	¼" -20 X ½" carriage bolts
4	¼" -20 hex nuts
2	Access Panel Keys (CH-751)

Tools Needed For Basic Installation

- Wire nuts or appropriate terminals/connectors
- Wire strippers
- Wire cutters
- 3/8" drive ratchet, 6" extension, 7/16" socket
- Digital or Analog multi-meter



SECURITY BRANDS INC



Introduction

The Summit Access Control XL-660 is a high-quality, user-programmable, commercial-duty digital key control station designed to control access to a passageway using 4-digit access codes. The XL-660 integrates state-of-the-art electronics resulting in a product which is highly sophisticated, yet inexpensive. The XL-660 features: • 1 programmable 4-digit Master Code. (Factory default is 1 2 5 1 ... it is recommended that you re-program to a personal master code of your choice.) • 1 programmable 4-digit Latch Code • Master user ability to program up to 660, 4-digit access codes which can be assigned to 1 of 2 relays • Two relays programmable from ½ to 99 seconds incorporating both normally open (N/O) and normally closed (N/C) contacts. • An external event trigger, programmable as a Remote Inactive, Arming, or Remote Open input.

Before Installation

To take full advantage of the 24 month limited warranty, you must register with Security Brands, Inc. Please read and review the Warranty (page 3), complete the enclosed Warranty Registration card and send it to:

Security Brands, Inc.
Warranty Registration
1675 West Yale Ave.
Englewood, CO 80110

Installation

MOUNTING THE UNIT

The tools and instruments needed to install your unit and a Parts Checklist are shown on page 4. Make sure you have all the tools listed before you begin. It's a good idea to make sure to check off the items enclosed with the unit. If any parts are missing from the package, contact Security Brands, Inc immediately.

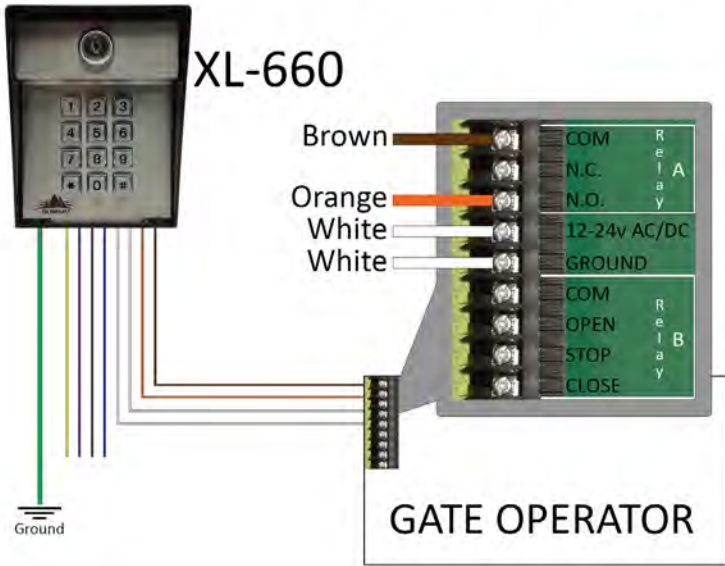
Mounting the unit to a Kodiak Black pedestal (18-001) or (18-002) or double height gooseneck (18-003)

Locate the four carriage bolts and four hex nuts found inside the shipping box. With the keypad face open, place the unit against the pedestal flange, insert the four carriage bolts from the back of the unit and tighten the hex nuts from the inside. Wrench tighten the hex nuts securely. Do not over tighten.

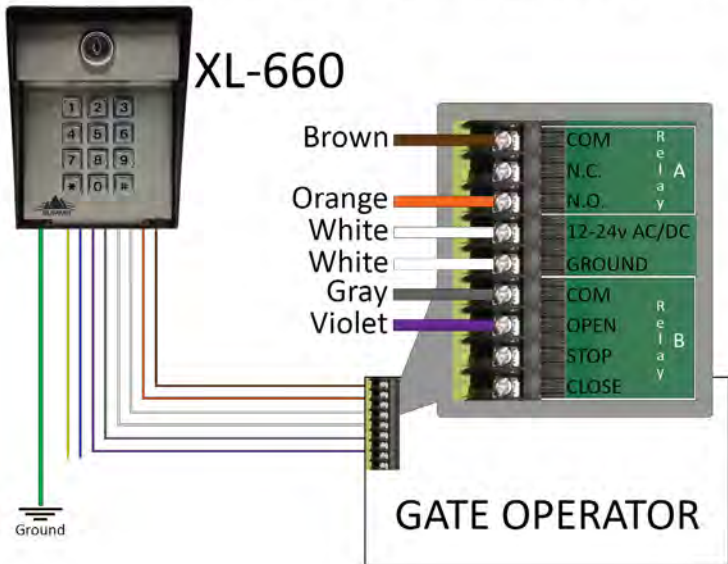
SYSTEM CONNECTIONS

An Operator Wiring Diagram and a Door Strike/Mag Lock wiring diagram for the XL-660 are shown on page 5. • The most common installation connects the XL-660 to a Gate Operator only. Refer to the Operator Wiring Diagram (the top drawing.) • If the XL-660 is being connected to other devices and equipment, such as a door strike or mag lock, use the Door Strike/Mag Lock Wiring Diagram (the lower drawing.)

GATE OPERATOR WIRING DIAGRAM (Basic)



GATE OPERATOR WIRING DIAGRAM (Advanced)



DOOR STRIKE WIRING DIAGRAM



MAG LOCK WIRING DIAGRAM



BOARD LAYOUT



- Carefully study the diagram that best suits the installation conditions. The following is a key to the wire harness color codes.

HARNES COLOR CODES

WHITE (AC Hot) (DC +)	11.5 - 29 volts AC or DC
WHITE (AC Neutral)(DC -)	11.5 - 29 volts AC or DC
GREEN	EARTH GROUND ONLY

RELAY A (PRIMARY) CONTROL COLOR CODES

BROWN	11.5 - 29 vRELAY (A) COMMON
ORANGE	RELAY (A) NORMALLY OPEN (N/O)
BLUE	RELAY (A) NORMALLY CLOSED (N/C)

RELAY B (SECONDARY) CONTROL COLOR CODES (Use if controlling a second device)

GRAY	RELAY (B) COMMON
VIOLET	RELAY (B) NORMALLY OPEN (N/O)
YELLOW	RELAY (B) NORMALLY CLOSED (N/C)

WIRING CONNECTIONS

1. The XL-660 is designed to operate between 11.5 volts minimum and 29 volts AC or DC maximum. Using a multi-meter, measure the supply line voltage to make sure it falls within these tolerances.
2. **IMPORTANT: TURN OFF THE POWER SUPPLY BEFORE MAKING ELECTRICAL CONNECTIONS**
3. Locate the two white wires on the circuit board main harness and, WITH THE POWER OFF, connect them to the power supply leads. Use wire nuts or connectors to secure the connections. The XL-660 is rectified. Polarity need not be observed.
4. Connect the primary device to be controlled to the unit's primary relay control leads.
 - a. If you are connecting to a gate operator or electric door strike, use the BROWN and ORANGE leads for normally open contact. (Refer to the Wiring Diagrams, page 6-7.)
 - b. If you are connecting to a mag-lock or any device that requires power in the locked state, use the BROWN and BLUE leads for normally closed contact. (Refer to the Wiring Diagrams, page 6-7.)
 - c. If you interface with a secondary device, connect the unit's secondary relay control leads to the secondary device. (Refer to the Wiring Diagrams, page 6-7.)
5. Connect the Green lead to Earth Ground.
6. Before supplying power to the unit, refer to the appropriate wiring diagram to double-check all connections. When you are sure you have the unit wired correctly, apply power to the unit.
 - a. If this is the FIRST TIME POWER UP, the unit will perform a self-diagnostics routine. After each test has passed, the unit will respond with a tone. The unit will perform a total of 4 tests (depending upon the equipment connected to the unit.) The unit will then flash the LED's several times while it is performing a memory setup.
 - b. Once all the tests have passed and the unit is set up correctly, you will hear a "GOOD TONE" (an oscillating high tone) from the unit. If the unit does not perform as above, quickly shut off power to the unit and contact your distributor or Security Brands, Inc.

NOTE: The unit will perform a self-diagnostics routine only during first-time power up. After first-time power up, the unit will sound a "GOODTONE" (an oscillating high tone) each time power is applied.

THE IDLE MODE

When the desired connections are complete and power is supplied to the unit, the unit will be in the IDLE MODE. The IDLE MODE is the normal mode of operation, meaning the unit is ready to accept input from the keypad. When in the IDLE MODE, you have approximately 4 seconds between key presses. If this time is exceeded, you will receive an ERROR TONE. Any time you hear an ERROR TONE, simply begin whatever operation you were attempting over again.

ACCESS CODES AND FUNCTION CODES

There are two types of codes you need to keep in mind when using the XL-660. • Access Codes, quite simply, are the numbers that are programmed into the unit and assigned to the users who need to access the gate or door. The Access Codes are the "everyday" use codes. Up to 660 Access Codes can be programmed into the unit. • Function Codes, on the other hand, are special modes that only the Master User or Administrator can enter to control how the XL-660 is programmed and operates. There are 2 specialized Function Codes which are shown on the following Chart.

MASTER CODE	The Master Code is a four-digit Function Code used to program Access Codes into the XL-660. The factory default master code is 1 2 5 1. The Owner/Administrator enters the Master Code to program the Access Codes others will use to gain entry to the area controlled by the unit. It is recommended that the Master Code be re-programmed to a four-digit code of your choice. Remember to make a note of the new Master Code. It is the password to the unit and should be treated as confidential.
LATCH CODE	The Latch Code is a programmable four digit Function Code used to toggle relay A. The Latch Code is used to hold a gate or door open. For example, the home owner or business administrator wants leave the gate open for a period of time; say for a few hours during a party or special function. While the Latch Code is entered, the gate or door is open. Re-enter the Latch Code to return the unit to normal operation (to close and lock the gate or doorway.)



GOOD TONES and ERROR TONES

The XL-660 sounds an audible tone each time a key is pressed. The star (*) key serves as the clear key and a double tone is sounded when the star (*) key is pressed. The pound (#) key is the exit key and exits the programming mode any time it is pressed.

- A "GOOD TONE" is an oscillating high tone. It is very distinct.
- An "ERROR TONE" is represented by a single low tone. It also is very distinct.

PROGRAMMING THE XL-660

NOTE: 1 2 5 1 WILL NOT OPEN THE GATE. 1 2 5 1 is the Master Code and allows access to the programming functions only.

The PROGRAM MODE is used to enter, delete, or change the codes or to set (energize) specific features of the unit or how the XL-660 interacts with other components in a system. Access the PROGRAM MODE by entering the Master Code using the keypad. If the correct Master Code is entered the unit will reply with a GOOD TONE and the Yellow LED will illuminate. In the Program Mode you have approximately 30 seconds between key presses. If the 30-second time period is exceeded during programming, the unit will automatically exit the Programming Mode. No damage is done to the programming. Simply complete the programming steps again.

The Star (*) and Pound (#) Keys

The star (*) and pound (#) keys serve specific functions while in the IDLE or PROGRAM mode.

- Pressing the star (*) key will always clear the entry and emits a double tone when it is pressed. FIX : IF YOU'VE HIT THE FORTH KEY IS IT COMMITTED TO MEMORY.

Press the star (*) key if you want to delete entry.

Note: Pressing the star (*) key will erase an entire entry. For example, if you enter 4 5 and realize that you wanted to enter 5 4, press the star (*) key and 4 5 will be erased. It is not necessary to press the star (*) more than one time.

- The pound (#) key serves as the programming exit key. Pressing (#) will exit the program mode. For example, enter the programming mode, enter the Access Codes you wish to add to memory, and then press the pound (#) key to exit the programming mode.

PROGRAMMING THE XL-660

To access the program mode, enter the MASTER CODE. When the correct MASTER CODE is entered the yellow LED will light and a GOOD TONE will sound. You can now enter any of ten programming SUB MODES described below.

SUB MODE NUMBER CODE	DESCRIPTION
1	Program an Access Code(s) (Relay A)
2	Delete any Valid Code
3	Change Master Code
5	Set Latch Code
6	Set Relay Output Times
7	Program an Access Code(s) (Relay B)
9	Program Event Input
0	Erase Memory

Program Relay "A" Access Codes -- Sub-Mode 1

To program Relay "A" access codes, use the following steps:

- Enter 1 2 5 1 (or, if the factory MASTER CODE has been changed, enter the programmed MASTER CODE)
- Unit will sound a GOOD TONE
- Enter the numeral 1
- Unit will sound a GOOD TONE
- Enter a four-digit code combination other than the MASTER CODE (for example enter 4 3 2 1)
- If you receive an ERROR TONE after an entry it means that particular code is already assigned and you must select another code
- If you make a mistake during entry, press the star (*) key, then re-enter the code.
- When a new code is accepted the unit will sound a GOOD TONE
- Continue to enter codes until you are finished
- When you are done, press the pound (#) key to exit the programming mode

NOTES: You will automatically be exited from the programming mode IF:

- The memory reaches capacity
- The memory is full, you will not be able to enter Sub-Mode 1 and you will receive an ERROR TONE if you try to enter this Sub-Mode.
- To enter new codes if the memory is full, you must first delete codes some of the codes already in memory.
- Contact Security Brands, Inc. if there seems to be a problem programming additional codes.

Delete Any Valid Code (Access or Latch) -- Sub-Mode 2

To delete programmed Access Codes:

- Enter the Master Code
- Unit will sound a GOOD TONE
- Enter the numeral 2
- Unit will sound a GOOD TONE
- Enter the Access Code you want to delete
- Unit will sound a GOOD TONE
- An ERROR TONE indicates that Access Code is not in the memory
- If you make an entry error, simply press the star (*) key then enter the correct code
- Continue to enter Access Codes you wish to delete
- OR
- Enter pound (#) to exit the programming mode

NOTES:

- You can delete any Access or Function code that you wish with the exception of the MASTER CODE.
- If the code you want to delete is not found in memory, the unit will respond with an ERROR TONE and wait for another code to be entered.
- A GOOD TONE will sound once the code has been found and deleted.
- You may continue deleting codes until you are done, then press the pound (#) key to exit the programming mode.

Change the Master Code -- Sub-Mode 3

To change the Master Code:

- Enter the current Master Code
- Unit will sound a GOOD TONE • Press the numeral 3
- Enter a new Master Code
- Unit will sound a GOOD TONE
- If you make an entry error, simply press the star (*) key and enter the number you wish
- Press the pound (#) key to exit the programming mode
- Be sure to make a note of the new Master Code. It is the password to system operation.
- If the Master Code has been forgotten or lost, and you cannot enter Sub-Mode 3, you must perform a Master Reset which will reset the Master Code to 1 2 5 1. You can then use Sub-Mode 3 to change the Master Code.

Set Latch Code -- Sub-Mode 5

DETAILS: The Latch Code toggles the state of the main relay (A) of the circuit board. The red LED will remain lit while the relay is in the latched position. The latch code is useful in applications where the gate is desired to hold open. If the operator's close circuit is controlled by loops, timers, etc., they will be overridden by the latched state of the relay and the gate will hold open. An "OPEN-OVERRIDE" circuit must exist in the operator in order to utilize this function. If your gate cycles when this code is entered, your operator is not set up to utilize this function. Your local dealer or distributor should be able to assist you if you have any specific questions.

To program or change the Latch Code:

- Enter the current Master Code
- Press the numeral 5
- Enter a new Latch Code (If you hear an ERROR TONE, select another code that is not already in use)
- If you make an entry error, simply press the star (*) key and enter the number you wish
- When a new Latch Code is accepted you will hear a GOOD TONE
- Press the pound (#) key to exit the programming mode
- Now, when the new Latch Code is entered, the RED LED will light and the gate will hold open
- When the new Latch Code is entered a second time the RED LED will go off and the gate will close

NOTE: On gates with a closing timer, the "TIMED DURATION" begins when the Latch Code is released.

Set Relay Output Times -- Sub-Mode 6

To set or change a Relay Output Time:

- Enter the current Master Code • Press the numeral 6
- Enter the Relay numeral (1 = Relay A; 2 = Relay B)
- Enter the desired Relay Output Time in seconds (i.e., enter 060 for 60 seconds)
- Press the pound (#) key to exit the programming mode

Program Relay "B" Access Codes -- Sub-Mode 7

To program Relay "B" Access Codes:

- Enter the current Master Code
- Press the numeral 7
- Enter a new Relay B Access Code (If you hear an ERROR TONE, select another code that is not already in use)
- When a new Latch Code is accepted you will hear a GOOD TONE
- Continue to enter new Relay B Access Codes
- If the memory becomes full, you will not be able to add more Relay B Access Codes
- Press the pound (#) key to exit the programming mode

Note: If the memory is full, you will not be able to access Sub-Mode 7. You will hear an ERROR TONE instead.

Event Input -- Sub-Mode 9

DETAILS: Programming Sub-Mode 9 allows a user with Master Code privileges to program the unit to connect to an external device to control a specific function.

Note: Relay A codes can be turned off by an external switch. When inactive, all Relay "A" codes will be disabled. However, the Relay "B," program and function codes will continue to be accessible to the Master user.

NOTE: If you do not wish to toggle the MODE that the unit reports, enter pound (#) key to exit. Event Input can be programmed 4 separate ways:

- 1. REMOTE INACTIVE / REMOTE SLEEP** - Locks out keypad during event:
 - Enter the MASTER CODE
 - Unit will sound a GOOD TONE
 - Enter the numeral 9 (Unit will sound the Current Mode*)
 - Unit will sound a GOOD TONE
 - Enter the numeral 1
 - Unit will sound a GOOD TONE
- 2. ARMING CIRCUIT / ACTIVATE RELAY OPERATION** - Turns unit on using a secondary device:
 - Enter the MASTER CODE
 - Unit will sound a GOOD TONE
 - Enter the numeral 9 (Unit will sound the Current Mode*) followed by a GOOD TONE
 - Enter the numeral 2
 - Unit will sound a GOOD TONE
- 3. REMOTE OPEN / FREE EXIT** - Use a secondary device input to activate the relay:
 - Enter MASTER CODE
 - Unit will sound a GOOD TONE
 - Enter the numeral 9 (Unit will sound Current Mode*) followed by a GOOD TONE
 - Enter the numeral 3
 - Unit will sound two quick tones in succession then wait for input
 - Enter the Relay to Activate
 - Enter the numeral 1 to activate relay A

OR

Enter the numeral 2 to activate relay B

 - Unit will sound a GOOD TONE
- 4. DISABLE** - To DISABLE the Event Input:
 - Enter the MASTER CODE
 - Enter the numeral 9 (Unit will sound Current Mode*)
 - Enter the numeral 0 to Disable
 - Unit will sound a GOOD TONE

*Current Modes

Single Tone Indicates:

Double Tone Indicates:

Triple Tone Indicates:

GOOD TONE Only:

Remote Inactive Mode is Enabled

Arming Circuit Mode is Enabled

Remote Open Mode is Enabled

Event Input Disabled

NOTE: If you do not wish to toggle the MODE that the unit reports, enter # to exit.

Erase All Codes -- Sub-Mode 0

Caution: This is a destructive Programming Mode. Completing the following steps will erase all Access Codes except for the factory default Master Code (1 2 5 1). Use with Caution.

DETAILS: This Sub-Mode should rarely be used unless you want to completely erase all Access Codes entered. This action will not change the Master Code.

To erase all Access Codes and Function Codes

- Enter the Master Code (The 1 2 5 1 cannot be deleted)
- Enter the numeral 0
- Enter the Master Code to complete the process
- If the sequence is not validated by the unit, you will receive an ERROR TONE and be exited from this program mode
- A GOOD TONE will sound to indicate all memory is cleared.

RESETTING THE XL-660

The Advantage XL-660 has two special reset types: Master Reset and Unit Reset. Choose the procedure that you want to use carefully.

Master Reset

- Should be used if the Master Code is lost or forgotten. The procedure will reset the Master Code to the 1 2 5 1.
- Should be used if the unit is in the Latch Mode and the Latch code is lost or forgotten.
- When a Master Reset is performed, Access Codes and Functions Codes are retained in memory and the unit does not require complete reprogramming.

Unit Reset

- Should only be used if the Advantage XL-660 is to be completely reset back to factory default settings.
- ALL ACCESS and FUNCTION CODES ARE LOST during a Unit Reset.
- The Master code is reset to 1 2 5 1 following a Unit Reset.

MASTER RESET

Follow these steps exactly. If you make an error, an ERROR will occur (you will hear a low ERROR tone) and you will need to start over from Step 1.

1. Open the unit face plate using the key provided.
2. Disconnect power from the unit by gently pulling the wire harness connector away from the board. Make sure to note the orientation of the connector.
3. Press and hold down the RESET button and reconnect power to the board by gently sliding the harness connector back into place on the circuit board (you will hear 1 tone), then release the RESET button. (See location Board Layout diagram, page 22)
4. Press the star key three times. (*) (*) (*)
5. The Master Code is now reset to the factory default (1 2 5 1) and the unit is out of latch mode
6. Close the face plate.
7. Program a new Master Code if you choose to do so. Be sure to make a note of the new Master Code.

UNIT RESET

NOTE: ALL ACCESS CODES and FUNCTION CODES are lost when performing a Unit Reset.

Follow these steps exactly. If you make an error, an ERROR will occur (a low-pitch ERROR tone will sound) and you will need to start over from Step 1.

1. Open the faceplate.
2. Disconnect the power from the unit by gently pulling the wire harness away from the board. Make sure to note the orientation of the connector.
3. Press and hold down the RESET button and reconnect power to the board by gently sliding the harness connector back into place on the circuit board, then release the RESET button. (See location Board Layout diagram, page 22)
4. Press the Pound, Star, Pound keys. (#) (*) (#)
5. The unit will respond with a GOOD TONE
6. Enter the MASTER CODE (1 2 5 1) from the keypad. The unit will then go into an endless cycle of tones.
7. While the cycle of tones continues, disconnect and then immediately reconnect power to the unit using the circuit board harness connector. The unit will then go through the "First Time Power Up" sequence. (See page 5).
8. The XL-660 is now completely reset. All programming is erased.

Troubleshooting

Problem	Solution
When I enter 1 2 5 1 on the keypad the gate will not open.	1 2 5 1 is the Master Code or programming access code. It will not open the gate unless the unit is in sleep mode. Program a gate access code into the unit using Sub-Mode 1 (listed in the programming instructions).
No response from keypad.	Verify power input across the two white wires on the main harness. Check for burn marks on the circuit board from a lightning surge. Contact Security Brands, Inc.
After I enter the latch code to hold the gate open it closes or cycles open and shut.	An open override circuit must be enabled in the gate operator to prevent the timer circuit from overriding the keypad when it is in a latch mode. Contact Gate Operator manufacturer.
When I enter a valid Access Code the gate does not open.	Locate the two wires attached to the Brown and Orange wires on the main wire harness, then, touch them together. If the gate does not open, check wiring or the connection terminals on gate operator. If the gate opens, contact Security Brands, Inc.
I connected the two white power wires together to one power source wire and the other power source wire to the green wire but the keypad doesn't work.	The green wire is for EARTH GROUND only. Connect one white wire to one power source wire and the other white wire to the second power source wire.
When I press 1 2 5 1 on the keypad nothing happens and I hear an endless set of error tones.	Contact Security Brands, Inc.
I want to reset my keypad but when I push the reset button nothing happens.	Consult instructions regarding MASTER and UNIT reset for proper reset sequence.



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