QUICK START GUIDE | EDGE E⁴

Model **27-240**

1 Unpack box and make sure you have all items shown here. (Screwdriver not shown.)
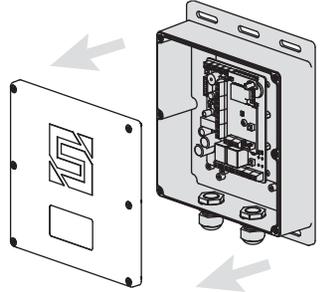
START HERE
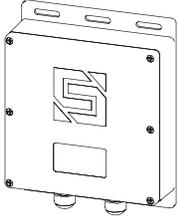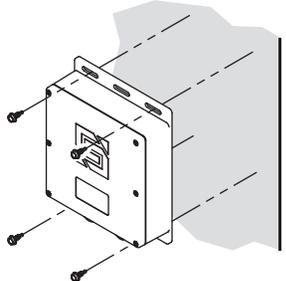
Edge Unit

12-V AC/DC Adapter
(PS-12DC1)

Programming Pad
(35-030)

2 Remove screws and cover of unit for access to internal components.

3 Mount unit in desired location using Tek screws, zip ties, Velcro, etc. (This step can be completed later.)

⚠ WARNING ⚠

AUTOMATIC GATES CAN CAUSE SERIOUS INJURY OR DEATH!

ALWAYS CHECK THAT THE GATE PATH IS CLEAR BEFORE OPERATING!

REVERSING OR OTHER SAFETY DEVICES SHOULD ALWAYS BE USED!

⚠ CAUTION ⚠

Fully tighten cable glands and secure cover with all mounting screws after installing, servicing, and/or programming.

For optimal bluetooth connection, avoid mounting unit inside a metal enclosure.

Failure to follow these instructions can damage the unit and/or cause it not to function correctly!
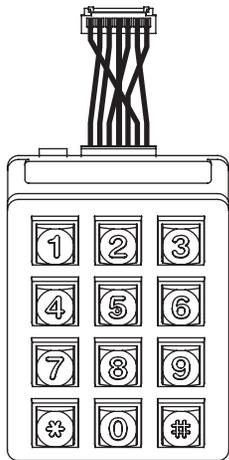
What's what?

All important components labeled

Unit shown with front panel open.
Wiring/cabling not shown for clarity.

Reset Button
For performing unit reset

Keypad Connector
For plugging in Programming Pad
when programming at Edge unit

Wiegand Terminals
For wiring to Wiegand devices
See **Page 6**

Digital Input Terminals
For connecting various accessories
See **Page 5**

Relay Status LEDs
Relay is active when lit

Power, Relay, Event Terminals
For wiring to power, wiring to
gate operator or door opener, and
connecting request-to-exit devices
See **Pages 3 and 5**

Programming Pad
(35-030)
For programming. See **Pages 8–17**.
(We recommend unplugging from
circuit board and storing in
bottom-left corner of Edge
enclosure when not in use.)

4 Connect wires.

Feed wires through cable gland(s) on unit, and connect as shown using included screwdriver.

Excessive force can damage unit!

Additional wiring diagrams can be found on **Pages 5 and 6**.

⚠ CAUTION ⚠

If the included 12-V AC/DC adapter will not be used, please go to **Page 4** and follow the procedure, **Using a Third-Party Power Source**.

Do not exceed 24 VAC/DC! Failure to choose a compatible power source can damage the unit!

Edge Power, Relay, Event Terminals

12–24 VAC/DC
POWER | RELAY A | RELAY B | EVENT INPUTS

J3 | J10 | J11 | J17 | J5

POS. (+) | NEG. (−) | N/O | COM | N/C | N/O | COM | N/C | EVNT2 | GND | EVNT1 | GND

Relay B can be wired to a second device in the same manner.

Gate Operator / Door Opener

POWER (+) | POWER (−) | COM | RADIO | COM | FREE EXIT | COM | REVERSE LOOP | COM | OPEN | STOP | CLOSE

Consult gate/door opener manual for exact connections.

Terminals vary widely across manufacturers and models.

OR

The GROUND terminal is optional unless required by local code(s). If using, please connect to earth ground or equivalent.

Third-Party 12–24-VAC/DC Power Source

12-V AC/DC Adapter
(Model PS-12DC1 included)

If plugging into duplex outlet, remove screw from outlet plate, and secure with included screw.

Using a Third-Party Power Source (Optional)

⊙ IMPORTANT ⊙

If you would like to use a third-party power source such as solar, verify that it conforms to the following specs:

Input	12–24 VAC/DC **no more than 10% beyond this range**
Current Draw	less than 111 mA @ 12 VDC less than 60 mA @ 24 VDC

4a Connect wires to unit as shown in Step 4.

4b Connect wires to your power source, making sure you connect positive to positive and negative to negative.

⚠ CAUTION ⚠

Double check that you have wired from positive on the Edge unit to positive on your power source and negative on the Edge unit to negative on your power source.

Reverse polarity can damage the unit!

❗ STOP ❗

Before going forward, double check all wiring and make sure the unit has power!

Wiring diagrams for connecting to accessory devices can be found on **Pages 5 and 6**.

For connecting accessories not mentioned, please contact **Technical Support**.

Make sure the gate or door path is clear before completing Step 7!

---

5 Grab Programming Pad, making sure it is connected to circuit board.

---
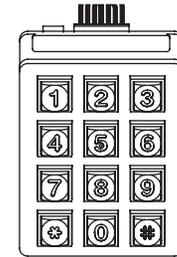
6 Add Access Code to Relay A.
(To add multiple codes, enter each of them before pressing pound key.)

1	2	5	1	→	1	→	?	?	?	?	→	#

Master Code
(can be changed)

Sub Mode

Access Code to Be Added
(4 digits by default; numbers only)

NOTE: The green arrow indicates a "good" tone on the Edge unit. By default, the following codes are reserved and cannot be used: 1251, 1273, 1366, 1381, 1387, 1678, 1752, and 1985.

---

7 Make sure gate or door path is clear; then enter access code on Pad, and confirm gate or door opens.
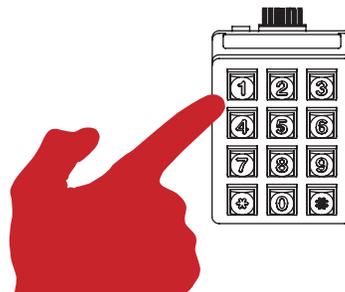
✓ INSTALLATION COMPLETE!

Jump to **Page 7** to continue programming and download the Edge Smart Keypad app.

A Event Inputs

Wiring for accessories such as a request-to-exit device

Edge Power, Relay, Event Terminals

12–24 VAC/DC
POWER   **RELAY A**   **RELAY B**   **EVENT INPUTS**

J3   J10   J11   J9   J5

POS. (+)   NEG. (−)   N/O   COM   N/C   N/O   COM   N/C   EVNT2   GND   EVNT1   GND
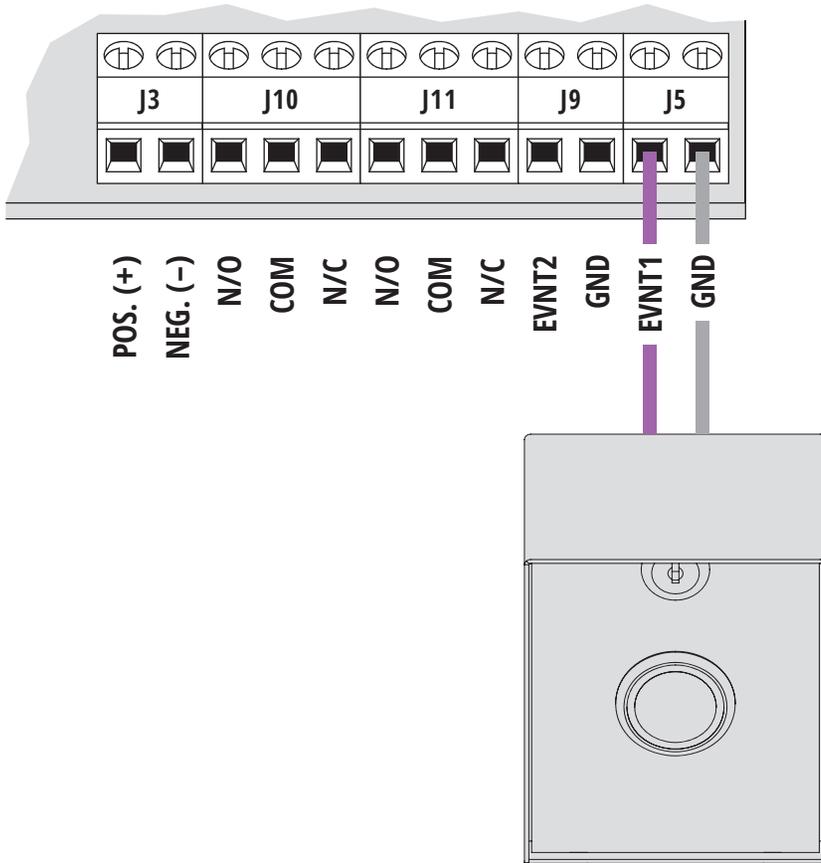
Request-to-Exit Device

(**58-RTE-P** is shown)

Event Input configuration instructions can be found on **Pages 10 and 11**.

B Digital Inputs

Wiring to various accessories

Edge Digital Input Terminals

DIGITAL INPUTS

J9   J8

#1   GND   #2   GND

Alarm Contact

Door Switch

To Alarm System
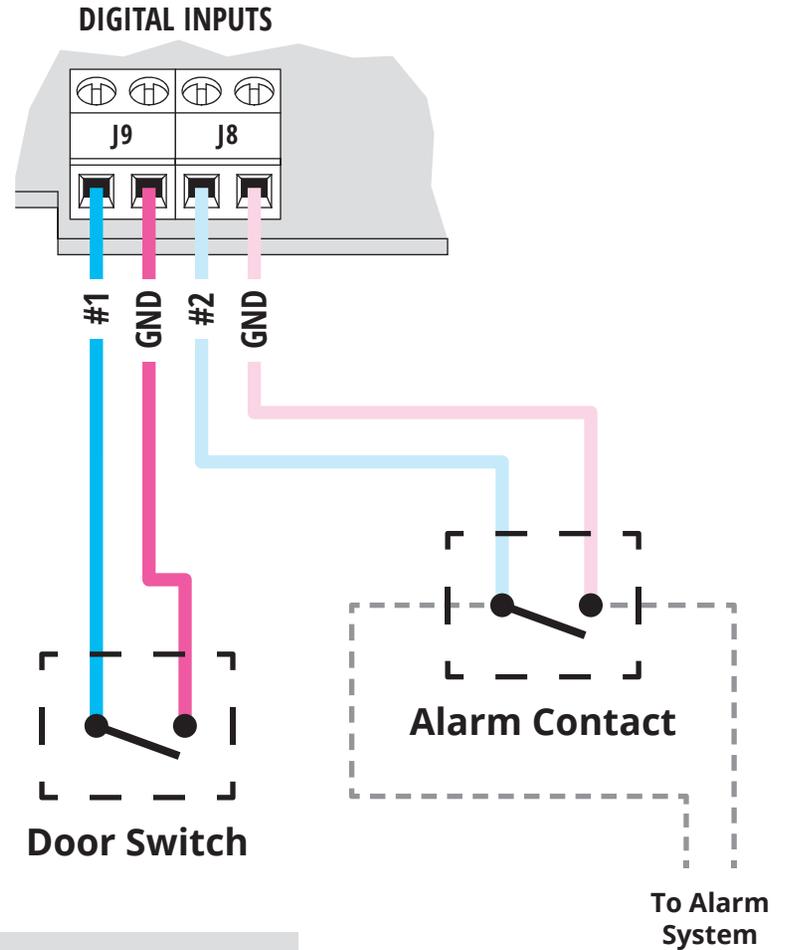
Digital Inputs can be configured using the Edge Smart Keypad app.

C Wiegand Device
Wiring for a Wiegand device

Wiegand configuration instructions can be found on **Page 12**.

Wiegand Device

Edge Wiegand Terminals

DOOR/READER A
WIEGAND-1

DOOR/READER B
WIEGAND-2

WIEGAND OUTPUTS

| J6 | J7 | J4 | J5 |

+12V | GND | DATA 0 | DATA 1 | LED 2 | LED 1

LED2 | LED1 | +12V | GND | DAT1 | DAT0 | LED2 | LED1 | +12V | GND | DAT1 | DAT0
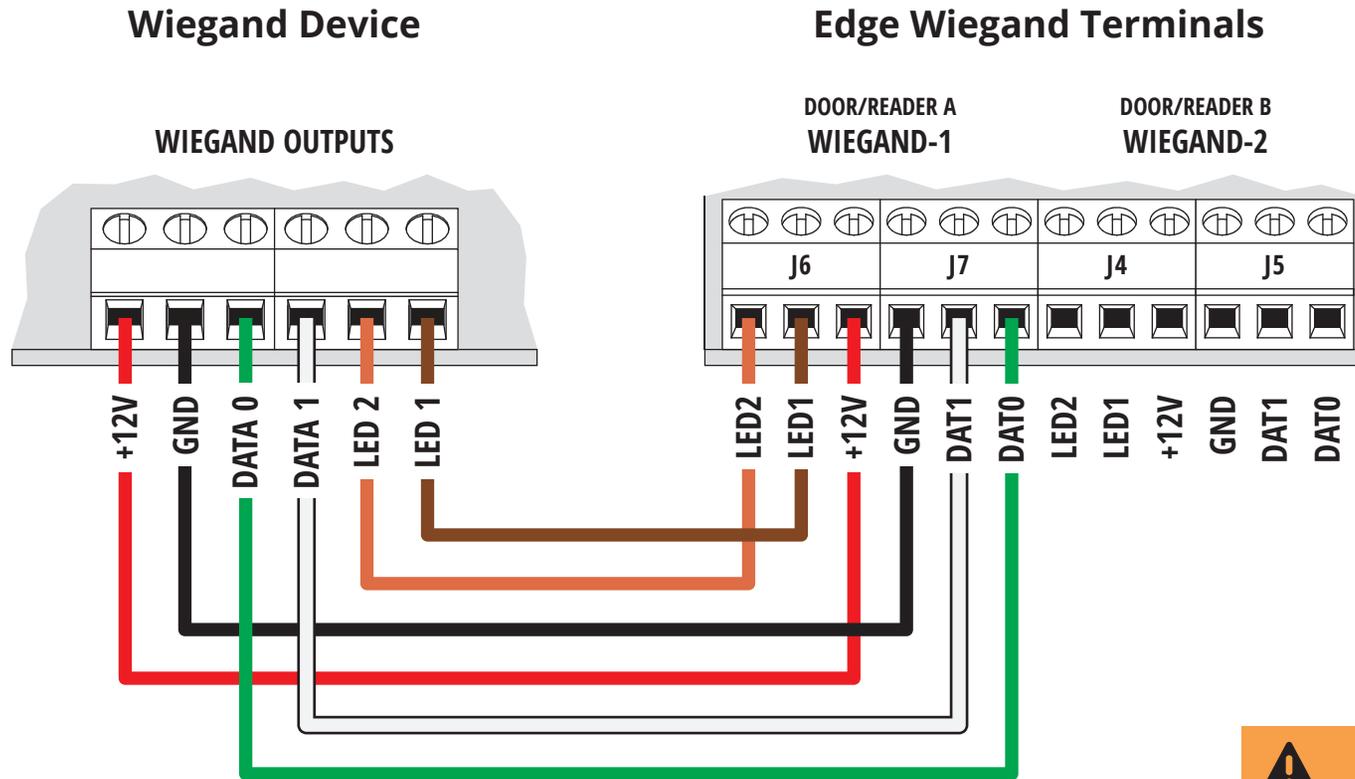
⚠ CAUTION ⚠

Disconnect power to the Edge unit before connecting Wiegand devices.

Failure to disconnect power can damage the unit!

Downloading the Edge Smart Keypad App for iOS/Android

(!) The Edge Smart Keypad app is for **ADMINISTRATOR USE ONLY** and is not intended for users.

a Grab your smartphone or tablet.
(These steps are optional. Unit can be fully programmed from keypad.)

b Navigate to your app store, and search for "edge smart keypad."

c Find the Edge Smart Keypad app by Security Brands, Inc. and download it.

Edge Smart Keypad
Security Brands, Inc.

? NEED HELP ?

You can find plenty of useful resources online to help you get your new Edge unit up and running quickly and easily.

Go to **securitybrandsinc.com/edge/**

If you need further assistance, please call Technical Support at **(972) 474-6390**.

D Pairing Edge Unit

Connecting your mobile device to your Edge unit for use with app.

The app is available for administrators who want to use it. Nearly all programming functionality is available via the Programming Pad.

❶ **IMPORTANT! Make sure your Edge unit is powered on and that Bluetooth is enabled on your mobile device or pairing will not work.**

Step 1 - Grab your mobile device and open the Edge Smart Keypad app.
If you do not have the app, follow the steps on this page for downloading it.

Step 2 - Fill out your account information and tap the "Sign Up" button.
If you have already created an account, you will log in instead.

Step 3 - On the Paired Keypads screen, tap the "Add Keypad" button.

Step 4 - On the Add Keypad screen, tap the Edge unit you want to pair.
If you do not see any Edge units listed, make sure your Edge unit is powered on and is in Bluetooth range.

Step 5 - Complete the procedure shown on your mobile device.
These steps will be completed using the PIN pad on your Edge unit.

Step 6 - Enter the Master Code (default is 1251) on your mobile device.

Step 7 - Enter the code shown on your mobile device at the Edge unit.
This step must be completed within the time duration displayed.

Step 8 - Change your Master Code if you like.
This step is recommended, but optional, and can be done at a later time.

Your new Edge unit is now be paired and will appear on the Paired Keypads screen. Tapping on the Edge unit on this screen will give you access to relay control and full access control management of the Edge unit from within the app.

ⓘ For more information and guidance, please go to **securitybrandsinc.com/edge/** or call Technical Support at **(972) 474-6390** for assistance.

E1 Direct Programming / Unit Configuration

Green arrow indicates "good" tone on unit. Always wait for good tone before moving on.

By default, these codes are unavailable for use: 1251, 1273, 1366, 1381, 1387, 1678, 1752, 1985.

Change Master Code
(Highly recommended for security purposes)

| 1 | 2 | 5 | 1 | → | 3 | → | ? | ? | ? | ? | → | # |

Current Master Code
(**1251** is default)

Sub Mode

New Master Code
(4 digits; numbers only)

Change Sleep Code

| 1 | 2 | 5 | 1 | → | 4 | → | 4 | → | ? | ? | ? | ? | → | # |

Master Code
(**1251** is default)

Sub Mode A

Sub Mode B

Sleep Code
(4 digits; numbers only)

ⓘ FIND MORE ⓘ

For all programming not shown here, as well as reset procedures and the Edge Smart Keypad app user guide, please visit our Edge start page:

securitybrandsinc.com/edge/

Programming Sub Modes

1	Add Access Code(s) to Relay A
2	Delete Code (Non-Wiegand)
3	Change Master Code
4 - 3	Add Latch Code to Relay B
4 - 4	Change Sleep Code
4 - 5	Change Code Length (Non-Wiegand)
4 - 6	Change Relay Trigger Time
4 - 7	Enable/Disable Timers and Schedules
4 - 8	Enable/Disable "3 Strikes, You're Out"
4 - 9	Configure Event Input 1
5	Add Latch Code to Relay A
6	Configure Wiegand Inputs
7	Add Access Code(s) to Relay B
8	Add Limited-Use Code
0	Delete All Codes and Timers

Things to Know

The Star Key (*)
If a mistake is made, pressing the star key deletes your entry. Two beeps will sound.

The Pound Key (#)
The pound key is good for one thing and one thing only: exiting programming mode.

E2 | Direct Programming / Unit Configuration

Change Relay Trigger Time

1 2 5 1	→ 4	→ 6	→ ?	→ ? ? ?	→ #
Master Code (**1251** is default)	**Sub** **Mode A**	**Sub** **Mode B**	**Relay** (1 for A; 2 for B)	**Trigger Time in Seconds** (001–999)	

Enable/Disable "3 Strikes, You're Out"

(When enabled, the unit will sound an alarm and go into a 90-second lockdown for 90 seconds when an incorrect code is entered three times.

1 2 5 1	→ 4	→ 8	→ 🔊	→ ?	→ #
Master Code (**1251** is default)	**Sub** **Mode A**	**Sub** **Mode B**	**Current State** (On: 1 beep; Off: 2 beeps)	**Configure** (1 for no change; 2 to change state)	

Configure Wiegand Input

(Allows enabling or disabling of a Wiegand input and configuration of the Wiegand device type. For the tag reader type, use the Edge Smart Keypad app.)

1 2 5 1	→ 6	→ ?	→ 5 0 0	→ ?	→ #
Master Code (**1251** is default)	**Sub** **Mode A**	**Wiegand Input** (1 for 1; 2 for 2)	**Sub Mode B**	**Configuration** (0 for disabled; 1 for keypad; 2 for card reader; 3 for remote)	

Change Default Facility Code

1 2 5 1	→ 6	→ ?	→ 1 0 6	→ ? ? ?	→ #
Master Code (**1251** is default)	**Sub** **Mode A**	**Wiegand Input** (1 for 1; 2 for 2)	**Sub Mode B**	**Facility Code** (000–255)	

E3 Direct Programming / Unit Configuration

Green arrow indicates "good" tone on keypad. Always wait for good tone before moving on.

Toggle Silent Mode

(Toggles Silent Mode, which mutes all audible-tone feedback on unit)

| 1 | 2 | 5 | 1 | → | 6 | → | 3 | 0 | 9 | → | ? | ? | ? | ? | → | # |

Master Code
(**1251** is default)

Sub Mode A

Sub Mode B

Master Code Again
(**1251** is default)

Configure Event Input 1

(Allows an external device to affect keypad operation or trigger a relay. To configure additional inputs, use the Edge Smart Keypad app.)

Mode 1 - Remote Open Mode

Triggers either Relay A or Relay B when event input state changes from normally open (N/O) to normally closed (N/C).

Mode 2 - Log Mode

Makes log entry of event input state when event input state changes from normally open (N/O) to normally closed (N/C).

Mode 3 - Remote Open and Log Mode

Combines Modes 1 and 2.

Mode 4 - Arming Circuit Mode

Enables either Relay A or Relay B when event input state changes from normally open (N/O) to normally closed (N/C). Otherwise, selected relay is disabled.

Mode 5 - Remote Operation Mode

Triggers or latches either Relay A or Relay B when event input state changes from normally closed (N/C) to normally open (N/O).

Mode 0 - Event Input 1 Disabled

Modes 1, 3, and 4

| 1 | 2 | 5 | 1 | → | 4 | → | 9 | → | 🔊 | → | ? | → | ? | → | # |

Master Code
(**1251** is default)

Sub Mode A

Sub Mode B

Current State
(Unit beeps mode number or good tone when disabled)
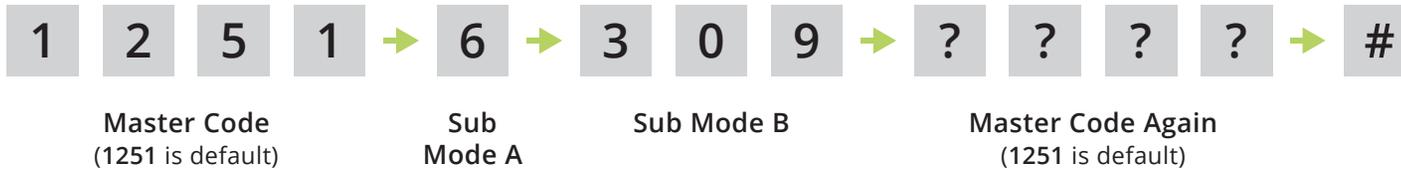
Event Mode
(1, 3, 4)
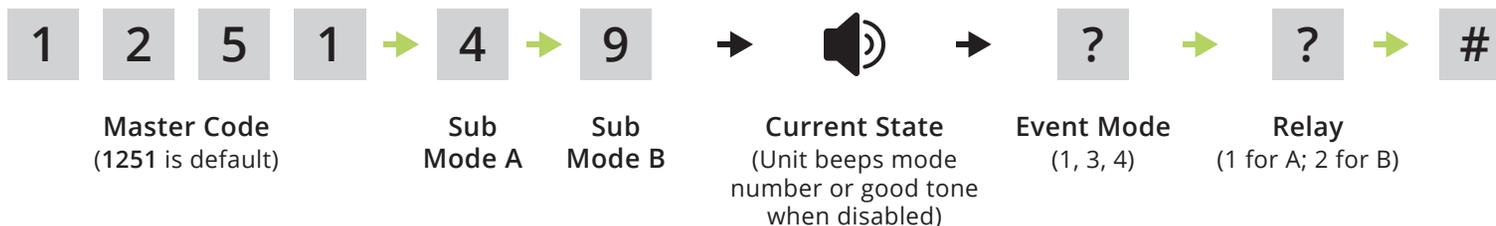
Relay
(1 for A; 2 for B)

E4 — Direct Programming / Unit Configuration

> Green arrow indicates "good" tone on keypad.
> Always wait for good tone before moving on.

Configure Event Input 1 (continued)

(Allows an external device to affect keypad operation or trigger a relay. To configure additional inputs, use the Edge Smart Keypad app.)

Mode 2

1 2 5 1	4	9	🔊	2	#
Master Code (**1251** is default)	**Sub Mode A**	**Sub Mode B**	**Current State** (Unit beeps mode number or good tone when disabled)	**Event Mode**	

Mode 5

1 2 5 1	4	9	🔊	5	?	?	#
Master Code (**1251** is default)	**Sub Mode A**	**Sub Mode B**	**Current State** (Unit beeps mode number or good tone when disabled)	**Event Mode**	**Setting** (1 for Relay; 2 for Relay Operation)	**Relay** (0 for A; 1 for B)	

?	#
Relay Operation (0 for trigger; 1 for latch)	
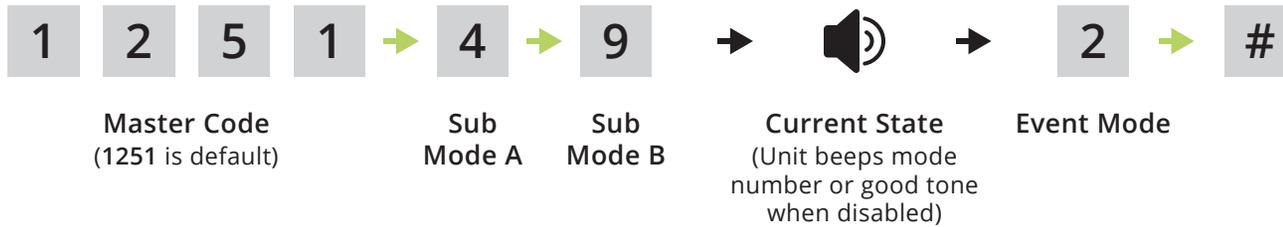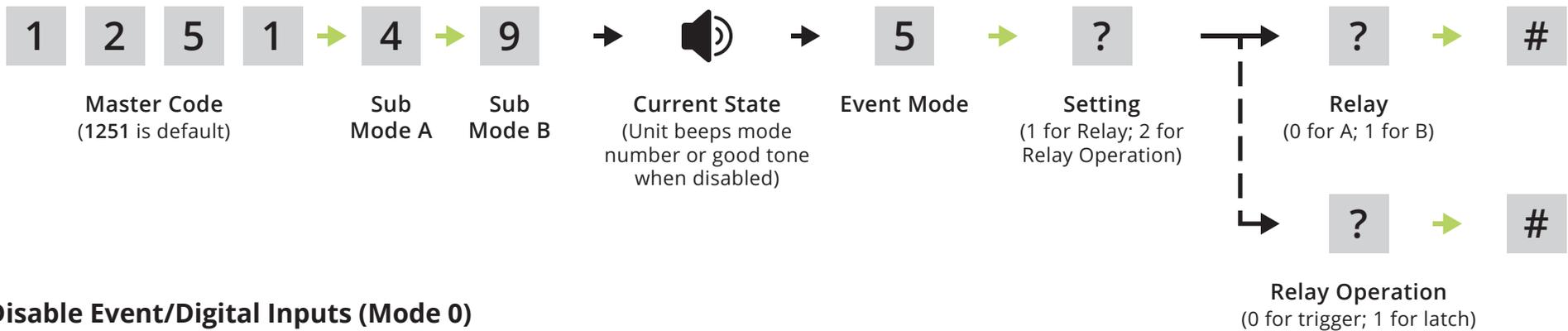
Disable Event/Digital Inputs (Mode 0)

1 2 5 1	4	9	🔊	0	#
Master Code (**1251** is default)	**Sub Mode A**	**Sub Mode B**	**Current State** (Unit beeps mode number or good tone when disabled)	**Event Mode**	
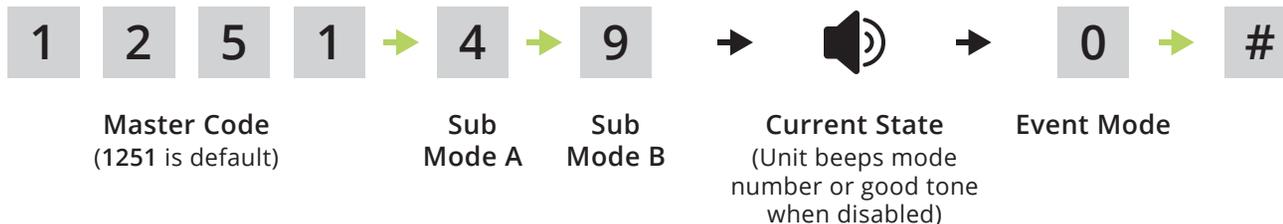
F1 Direct Programming / External Wiegand Keypad

Green arrow indicates "good" tone on keypad. Always wait for good tone before moving on.

Add Wiegand Keypad Access Code(s)

(Uses default facility code; to add multiple codes, enter each of them before pressing pound key)

On Both Wiegand Inputs

1 2 5 1 →	6 →	? ? ? →	1 →	? ? ? ? ? →	#
Master Code (1251 is default)	**Sub Mode A**	**Relay** (100 for A; 104 for B)	**Sub Mode B**	**Code(s) to Be Added** (5 digits by default; numbers only)	

On Wiegand Input 1 or 2

1 2 5 1 →	6 →	? →	? ? ? →	1 →	? ? ? ? ? →	#
Master Code (1251 is default)	**Sub Mode A**	**Wiegand Input** (1 for 1; 2 for 2)	**Relay** (100 for A; 104 for B)	**Sub Mode B**	**Code(s) to Be Added** (5 digits by default; numbers only)	

Add Wiegand Keypad Manager Access Code(s)

(Uses default facility code; to add multiple codes, enter each of them before pressing pound key)

On Both Wiegand Inputs

1 2 5 1 →	6 →	1 0 1 →	1 →	? ? ? ? ? →	#
Master Code (1251 is default)	**Sub Mode A**	**Sub Mode B**	**Sub Mode C**	**Code(s) to Be Added** (5 digits by default; numbers only)	

On Wiegand Input 1 or 2

1 2 5 1 →	6 →	? →	1 0 1 →	1 →	? ? ? ? ? →	#
Master Code (1251 is default)	**Sub Mode A**	**Wiegand Input** (1 for 1; 2 for 2)	**Sub Mode B**	**Sub Mode C**	**Code(s) to Be Added** (5 digits by default; numbers only)	

F2 Direct Programming / External Wiegand Keypad

Green arrow indicates "good" tone on keypad. Always wait for good tone before moving on.

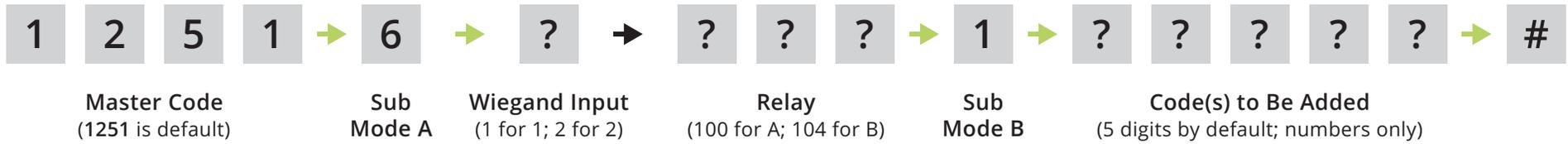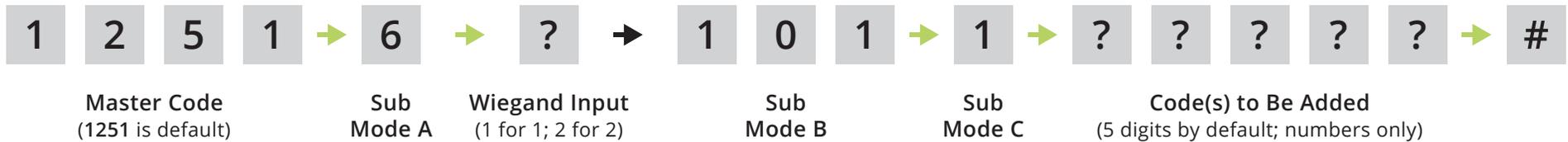## Add Wiegand Keypad Latch Code(s)

(Uses default facility code; to add multiple codes, enter each of them before pressing pound key)

On Both Wiegand Inputs

1 2 5 1	6	? ? ?	1	? ? ? ? ?	#
Master Code (**1251** is default)	**Sub Mode A**	**Relay** (103 for A; 105 for B)	**Sub Mode B**	**Code(s) to Be Added** (5 digits by default; numbers only)	

On Wiegand Input 1 or 2

1 2 5 1	6	?	? ? ?	1	? ? ? ? ?	#
Master Code (**1251** is default)	**Sub Mode A**	**Wiegand Input** (1 for 1; 2 for 2)	**Relay** (103 for A; 105 for B)	**Sub Mode B**	**Code(s) to Be Added** (5 digits by default; numbers only)	

Delete Wiegand Keypad Code(s)

(Uses default facility code; to delete multiple codes, enter each of them before pressing pound key)
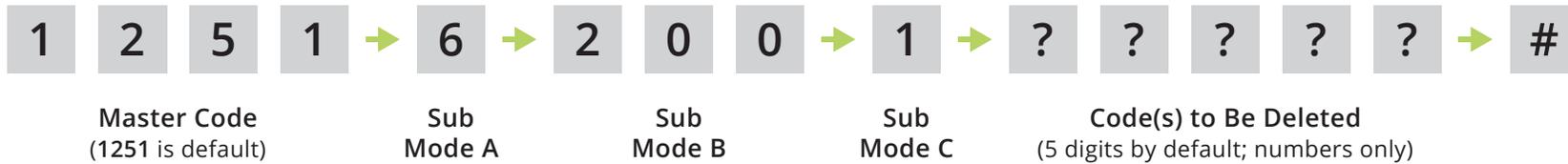
On Both Wiegand Inputs

1 2 5 1	6	2 0 0	1	? ? ? ? ?	#
Master Code (**1251** is default)	**Sub Mode A**	**Sub Mode B**	**Sub Mode C**	**Code(s) to Be Deleted** (5 digits by default; numbers only)	

On Wiegand Input 1 or 2

1 2 5 1	6	?	2 0 0	1	? ? ? ? ?	#
Master Code (**1251** is default)	**Sub Mode A**	**Wiegand Input** (1 for 1; 2 for 2)	**Sub Mode B**	**Sub Mode C**	**Code(s) to Be Deleted** (5 digits by default; numbers only)	

G1 Direct Programming / External Wiegand Card Reader

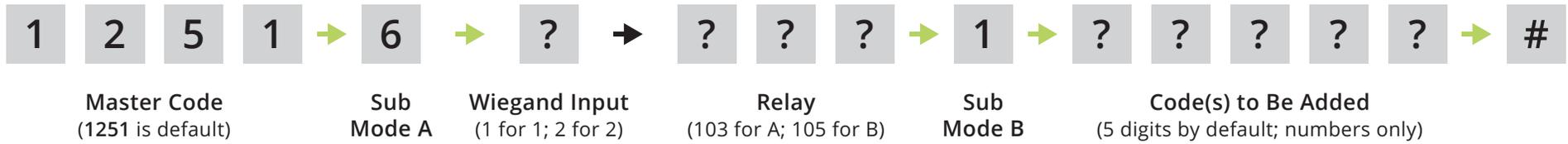Green arrow indicates "good" tone on keypad. Always wait for good tone before moving on.

Add Wiegand Card/Remote/Vehicle Tag Access Code(s)

(To add multiple codes, enter each of them before pressing pound key)

| 1 | 2 | 5 | 1 | → | 6 | → | ? | → | ? | ? | ? | → | 2 | → | ? | ? | ? | → |

Master Code (1251 is default) — **Sub Mode A** — **Wiegand Input** (1 for 1; 2 for 2; skip for both) — **Relay** (100 for A; 104 for B) — **Sub Mode B** — **Facility Code**

| ? | ? | ? | ? | ? | → | # |

Code(s) to Be Added (5 digits; 00000 to 65535)

Bulk Add Wiegand Card/Remote/Vehicle Tag Access Code(s)

| 1 | 2 | 5 | 1 | → | 6 | → | ? | → | ? | ? | ? | → | 3 | → | ? | ? | ? | → |

Master Code (1251 is default) — **Sub Mode A** — **Wiegand Input** (1 for 1; 2 for 2; skip for both) — **Relay** (100 for A; 104 for B) — **Sub Mode B** — **Facility Code**

| ? | ? | ? | ? | ? | → | ? | ? | ? | ? | ? | → | # |

Starting Code (5 digits; 00000 to 65535) — **Ending Code** (5 digits; 00000 to 65535)
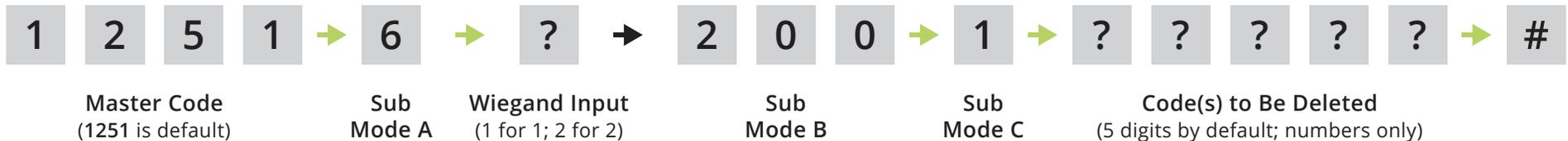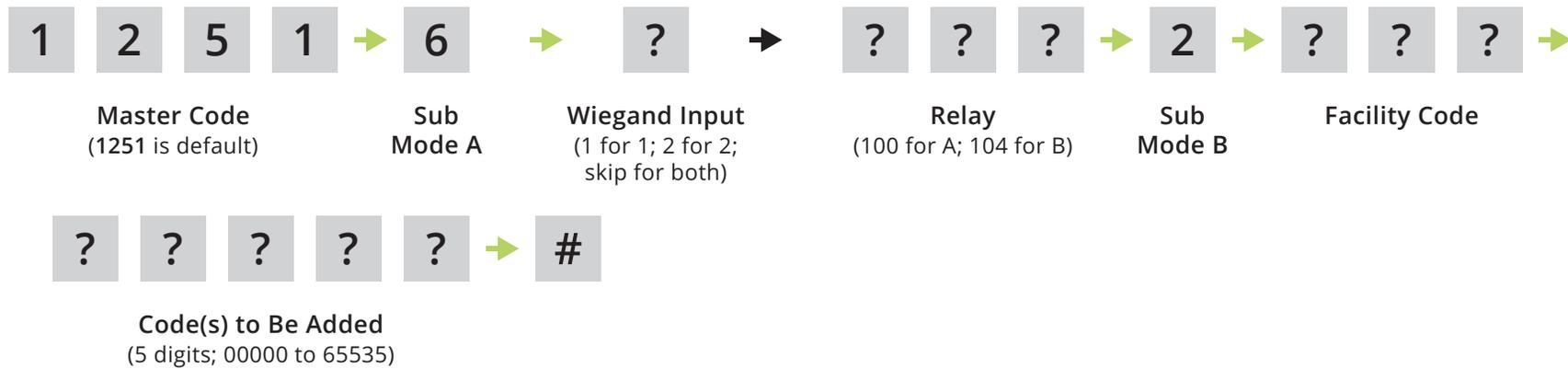
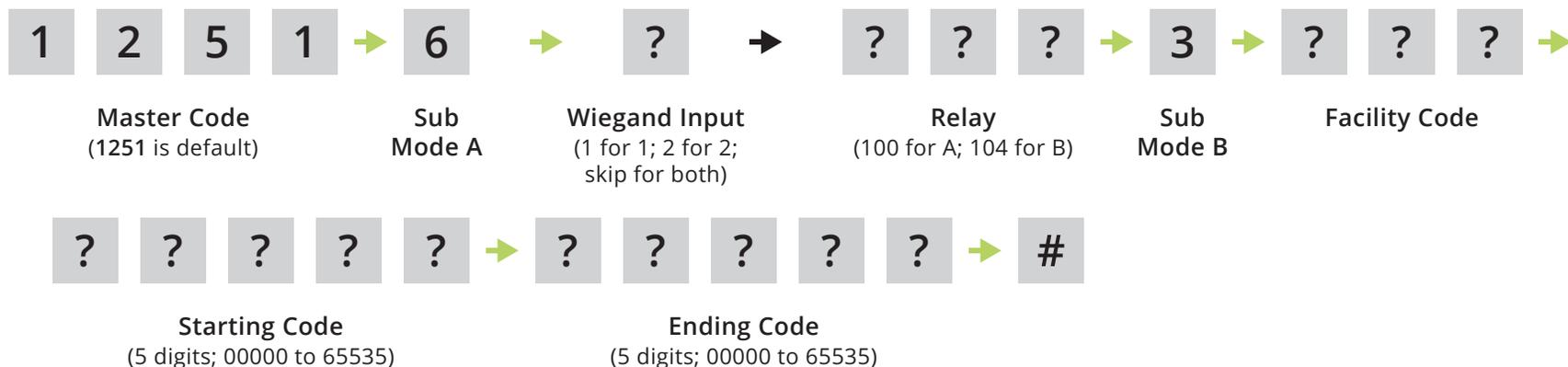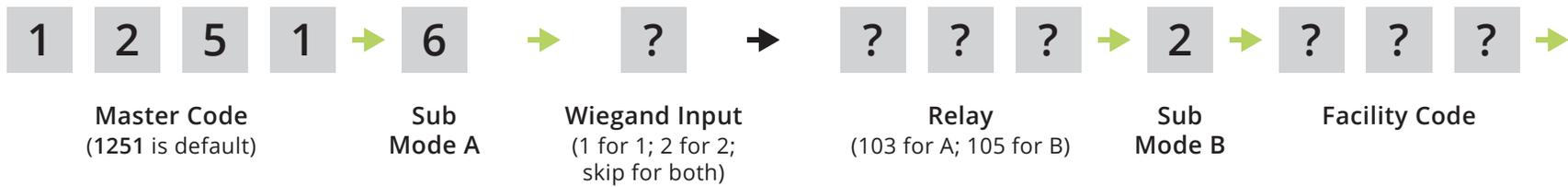## G2 Direct Programming / External Wiegand Card Reader

Green arrow indicates "good" tone on keypad. Always wait for good tone before moving on.

Add Wiegand Card/Remote/Vehicle Tag Latch Code(s)

(To add multiple codes, enter each of them before pressing pound key)

1 2 5 1	→	6	→	?	→	? ? ?	→	2	→	? ? ?	→

Master Code (1251 is default) — **Sub Mode A** — **Wiegand Input** (1 for 1; 2 for 2; skip for both) — **Relay** (103 for A; 105 for B) — **Sub Mode B** — **Facility Code**

? ? ? ? ?	→	#

Code(s) to Be Added (5 digits; 00000 to 65535)

Bulk Add Wiegand Card/Remote/Vehicle Tag Latch Code(s)

1 2 5 1	→	6	→	?	→	? ? ?	→	3	→	? ? ?	→

Master Code (1251 is default) — **Sub Mode A** — **Wiegand Input** (1 for 1; 2 for 2; skip for both) — **Relay** (103 for A; 105 for B) — **Sub Mode B** — **Facility Code**

? ? ? ? ?	→	? ? ? ? ?	→	#

Starting Code (5 digits; 00000 to 65535) — **Ending Code** (5 digits; 00000 to 65535)

G3 Direct Programming / External Wiegand Card Reader

Add Wiegand Card/Remote/Vehicle Tag Manager Access Code(s)
(To add multiple codes, enter each of them before pressing pound key)

1 2 5 1	6	?	1 0 1	2	? ? ?
Master Code (1251 is default)	**Sub Mode A**	**Wiegand Input** (1 for 1; 2 for 2; skip for both)	**Sub Mode B**	**Sub Mode C**	**Facility Code**

? ? ? ? ?	#
Code(s) to Be Added (5 digits; 00000 to 65535)	

Bulk Add Wiegand Card/Remote/Vehicle Tag Manager Access Code(s)

1 2 5 1	6	?	1 0 1	3	? ? ?
Master Code (1251 is default)	**Sub Mode A**	**Wiegand Input** (1 for 1; 2 for 2; skip for both)	**Sub Mode B**	**Sub Mode C**	**Facility Code**

? ? ? ? ?	? ? ? ? ?	#
Starting Code (5 digits; 00000 to 65535)	**Ending Code** (5 digits; 00000 to 65535)	

G4 **Direct Programming** / External Wiegand Card Reader

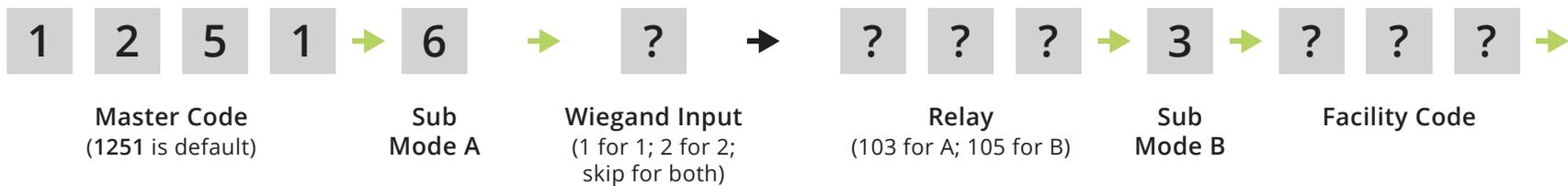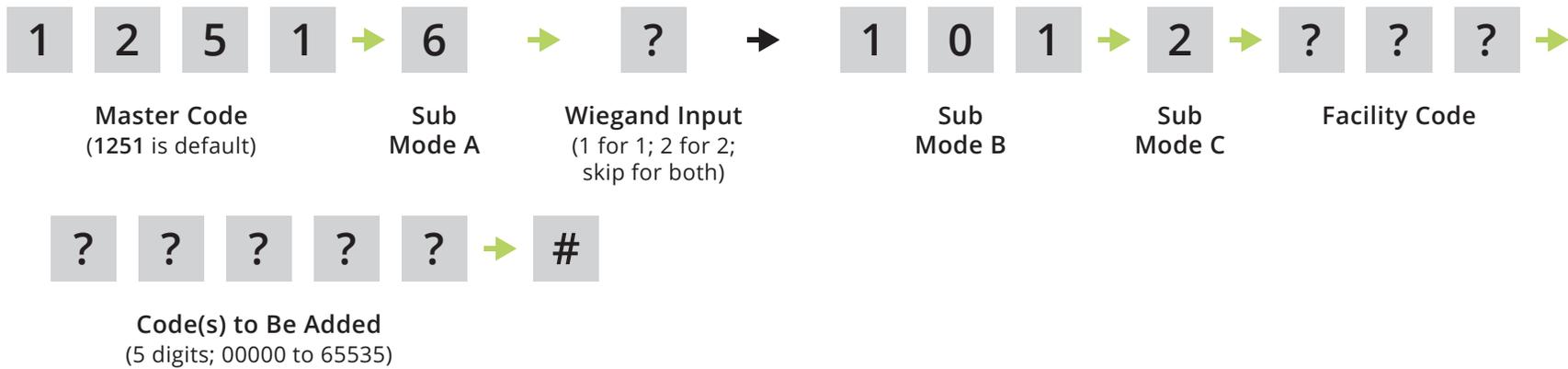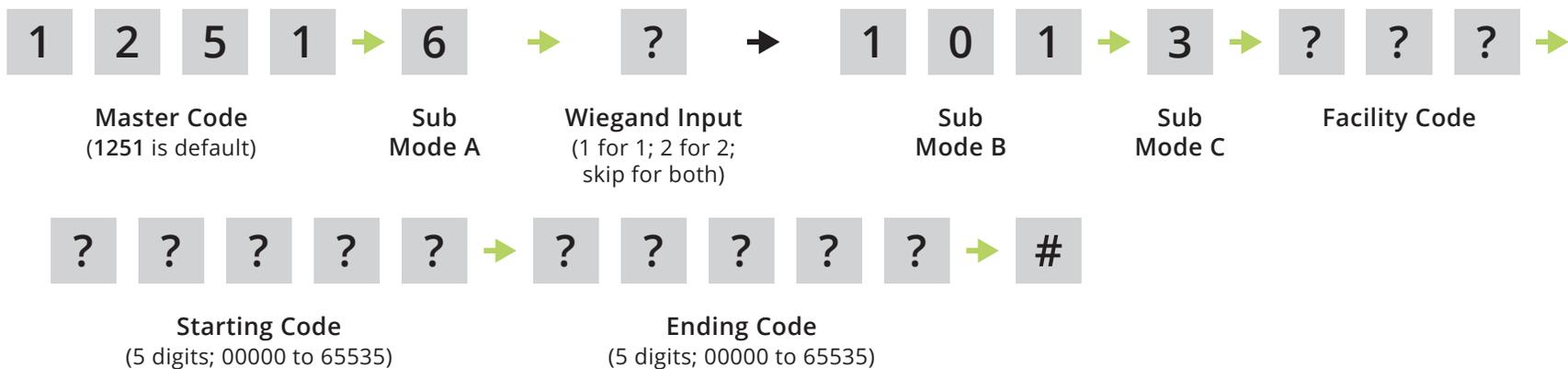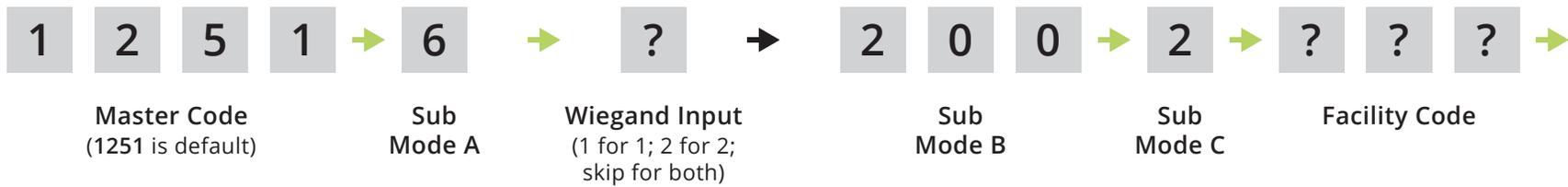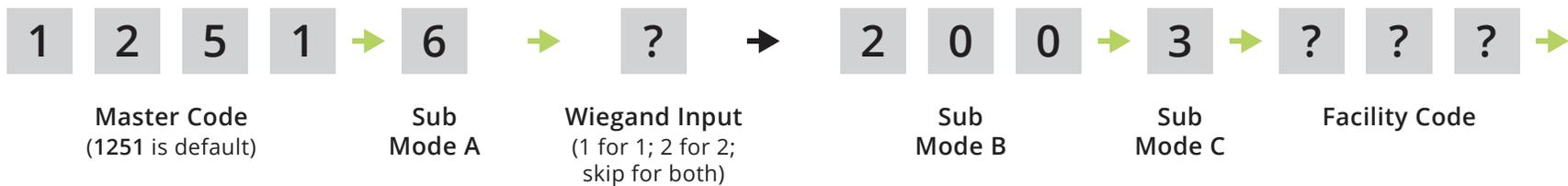Green arrow indicates "good" tone on keypad. Always wait for good tone before moving on.

Delete Wiegand Card/Remote/Vehicle Tag Manager Code(s)

(To add multiple codes, enter each of them before pressing pound key)

| 1 | 2 | 5 | 1 | → | 6 | → | ? | ➜ | 2 | 0 | 0 | → | 2 | → | ? | ? | ? | → |

| **Master Code** (1251 is default) | | | | | **Sub Mode A** | | **Wiegand Input** (1 for 1; 2 for 2; skip for both) | | **Sub Mode B** | | | | **Sub Mode C** | | **Facility Code** | | |

| ? | ? | ? | ? | ? | → | # |

Code(s) to Be Deleted
(5 digits; 00000 to 65535)

Bulk Delete Wiegand Card/Remote/Vehicle Tag Code(s)

| 1 | 2 | 5 | 1 | → | 6 | → | ? | ➜ | 2 | 0 | 0 | → | 3 | → | ? | ? | ? | → |

| **Master Code** (1251 is default) | | | | | **Sub Mode A** | | **Wiegand Input** (1 for 1; 2 for 2; skip for both) | | **Sub Mode B** | | | | **Sub Mode C** | | **Facility Code** | | |

| ? | ? | ? | ? | ? | → | ? | ? | ? | ? | ? | → | # |

Starting Code
(5 digits; 00000 to 65535)

Ending Code
(5 digits; 00000 to 65535)

Notes

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Edge E4
27-240

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