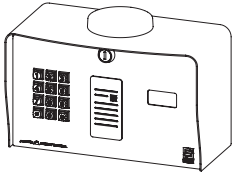# INSTALL GUIDE | ASCENT K²

SECURITY BRANDS

1 Unpack box and make sure you have all items shown here.

START HERE

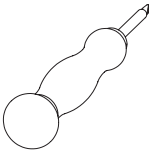| Ascent Unit | 24-V AC/DC Adapter | Key | Carriage Bolt (4x) | Hex Nut (4x) | Screwdriver |

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2 Unlock and open unit faceplate for mounting, wiring, and setup.

ⓘ IMPORTANT ⓘ

This Ascent unit **WILL NOT WORK** until the activation process is **COMPLETE**!

See the included **Activation Guide** to get this unit activated.

If you need help or have any questions, please contact **Summit Control** at **(972) 474-6422**.
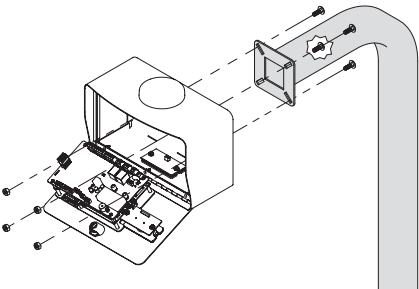
❗ WARNING ❗

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!

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3 Mount unit to pedestal using included mounting hardware.
(This step may be completed later.)

ⓘ IMPORTANT ⓘ

We recommend mounting the unit on a gooseneck pedestal using the included mounting hardware.

If using alternate mounting, the **4G LTE Antenna Extension Kit (Model 16-ANTX-1)** should be purchased and installed.

Failure to do so may result in NO SIGNAL!

⚠ CAUTION ⚠

Use all four carriage bolts when mounting the unit to a pedestal.

Leave the "hockey puck" antenna in place even if using an antenna extension.

Seal all openings created in the enclosure.

Failure to follow these instructions can damage the unit!

❗ STOP ❗

This is a cellular accessory for a gate or door. An uninterrupted cellular connection **CANNOT BE GUARANTEED**!
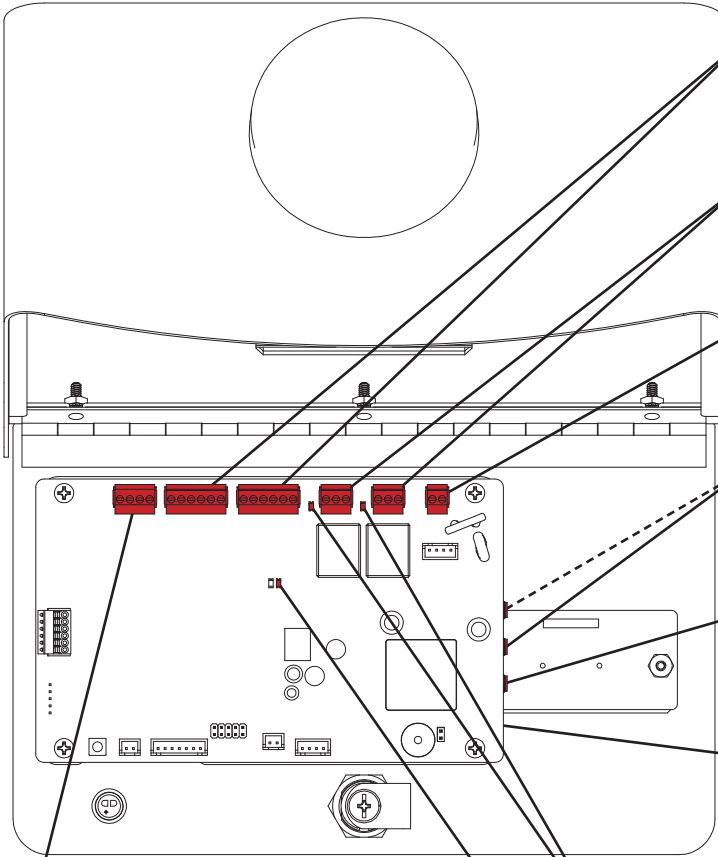
An emergency egress or primary entry mechanism **SHOULD ALWAYS BE USED**! (transmitter, fire box, mechanical release)

Consult with your dealer, distributor, and/or system designer for more information.

What's what?
All important components labeled

Unit shown with faceplate fully open. Internal wiring not shown for clarity.

Wiegand Terminals
For wiring to Wiegand devices. See **Page 2**.

Relay Terminals
For wiring to gate operator or door opener. See **Page 2**.

Power Terminals
For wiring to included power supply. See **Page 2**.

Cellular Antenna Jacks
Jack marked with dashed line is backup jack and not used.

WiFi/Bluetooth Antenna Jack

SIM Card
Located on left side of lower circuit board. Press in gently to eject.

Digital Input Terminals
For connecting accessory devices. Scan **QR code on next page** for wiring instructions.

Relay Status LEDs
Relay is active when lit

Power Indicator LED

? NEED HELP

Call **(972) 474-6422**
Email **support@summitcontrol.com**
We are available **Mon–Fri / 8am–5pm Central**

4 Connect wires

Feed wires through back of unit, and connect as shown using included screwdriver.

Consult gate/door opener manual for exact connections.

Terminals vary widely across manufacturers and models.

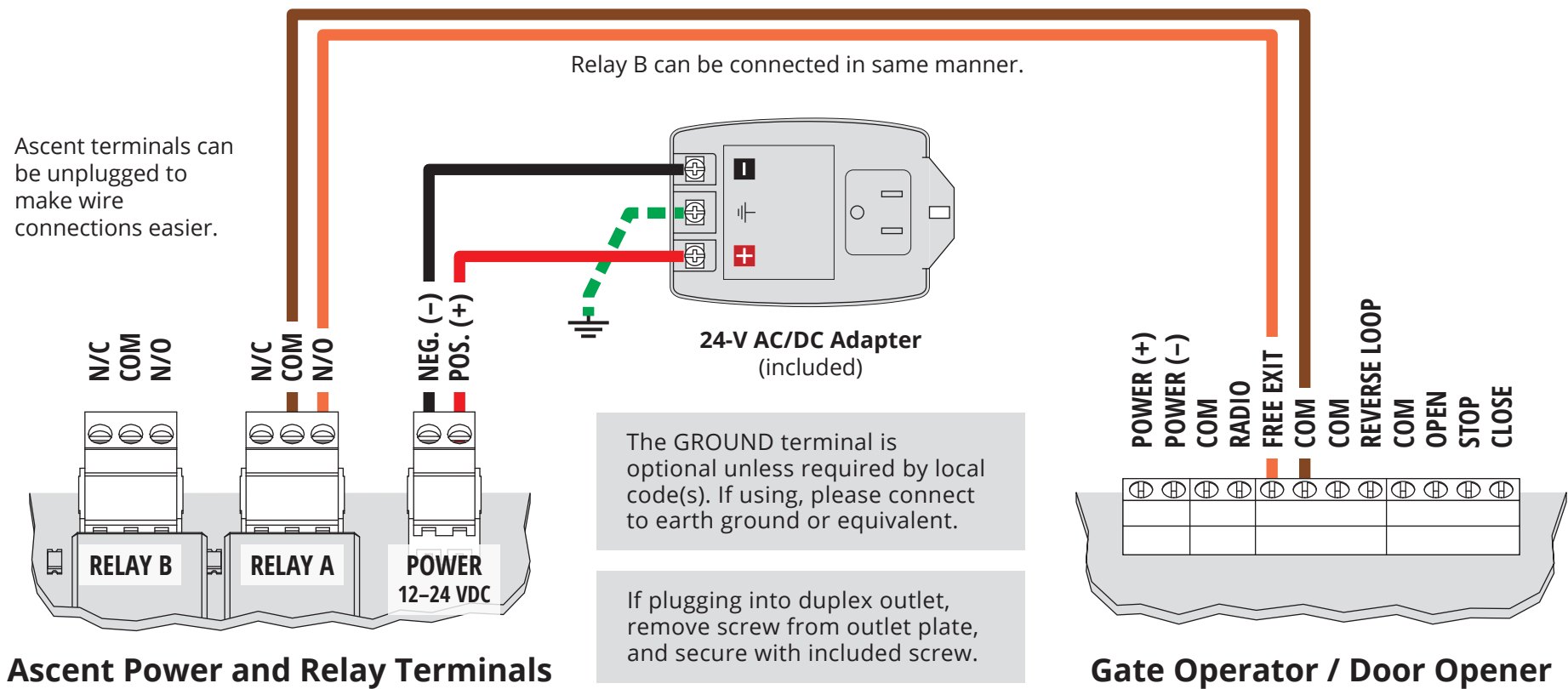Additional wiring diagrams can be found below and online.

⚠ CAUTION ⚠

When connecting the power supply, remember to connect positive to positive and negative to negative to avoid damage.

Reversing polarity can damage the unit and void the warranty!

We recommend using 18-gauge stranded wire for all connections.

Relay B can be connected in same manner.

Ascent terminals can be unplugged to make wire connections easier.

24-V AC/DC Adapter (included)

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

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

RELAY B — N/C COM N/O
RELAY A — N/C COM N/O
POWER 12–24 VDC — NEG. (−) POS. (+)

Ascent Power and Relay Terminals

Gate Operator terminals: POWER (+), POWER (−), COM, RADIO, FREE EXIT, COM, COM, REVERSE LOOP, COM, OPEN, STOP, CLOSE

Gate Operator / Door Opener

❗ STOP ❗

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

A wiring diagram for connecting to Wiegand devices can be found below.

For connecting accessories not mentioned, please scan the QR code on this page.

Make sure the gate path is clear before completing Step 5!

5

Key in temporary code 2012 on keypad and confirm gate opens. If it does, close and lock unit faceplate.

| 2 | 0 | 1 | 2 |

Adding and deleting codes is done through Summit Control and **NOT** from keypad on unit!

✓

INSTALLATION COMPLETE!

Now follow the **Activation Guide** to create an account and begin using Ascent.

A Wiegand Device

Feed wires through back of unit, and connect as shown using included screwdriver.

These terminals are used to connect a Wiegand device such as a card reader or Wiegand keypad.

Either set of Wiegand terminals can be used for wiring and then configured in Summit Control.

⚠ CAUTION ⚠

Disconnect power to the Ascent unit before connecting Wiegand devices.

Failure to disconnect power can damage the unit!

Need More?

Use the QR code below to get access to more resources, including how-to videos and additional wiring diagrams for connecting accessory devices.

Ascent terminals can be unplugged to make wire connections easier.

WIEGAND 1 — DATA 0, DATA 1, GND, +12V, LED 1, LED 2
WIEGAND 2 — DATA 0, DATA 1, GND, +12V, LED 1, LED 2

Ascent Wiegand Terminals

WIEGAND INPUTS — LED 1, LED 2, DATA 1, DATA 0, GND, +12V

Wiegand Device