

# QUICKSTART "BASIC" INSTALLATION GUIDELINES FOR AN 1812 ACCESS PLUS CABINET AND BY-PASS BOARD



120 Glasgow Avenue  
Inglewood, California 90301  
U.S.A.

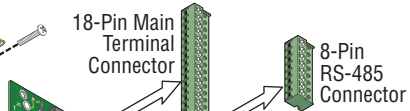
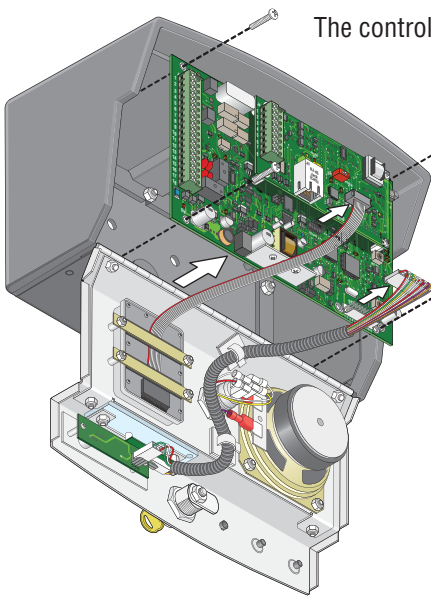
It is highly recommended that you consult the Installation/Owner's manual for complete instructions on all the different types of installations. The 1812 Access Plus Telephone Entry System involves the installation of the 1812 cabinet, the by-pass board for the incoming telephone line, and wiring of these components (On reverse side). Be sure that all dirt, metal or wood debris is removed from inside cabinet after mounting it. This could damage the control board and cause a malfunction during operation.

## Remove Control Board from Cabinet

The control board removal is the same for all models.

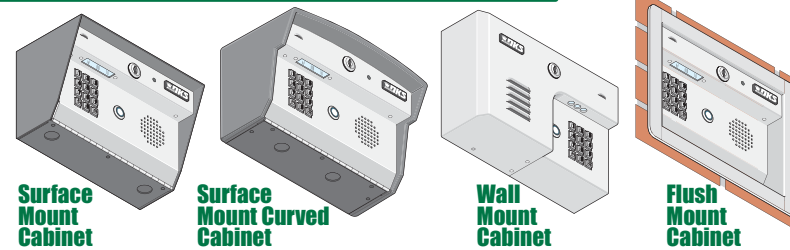
1. Unlock and open the 1812 Access Plus door.
2. Disconnect the keypad plug and door accessories plug from the control board.
3. Remove the 4 screws. Carefully remove control board.

**CAUTION** Keep the control board in a protected area during the installation.



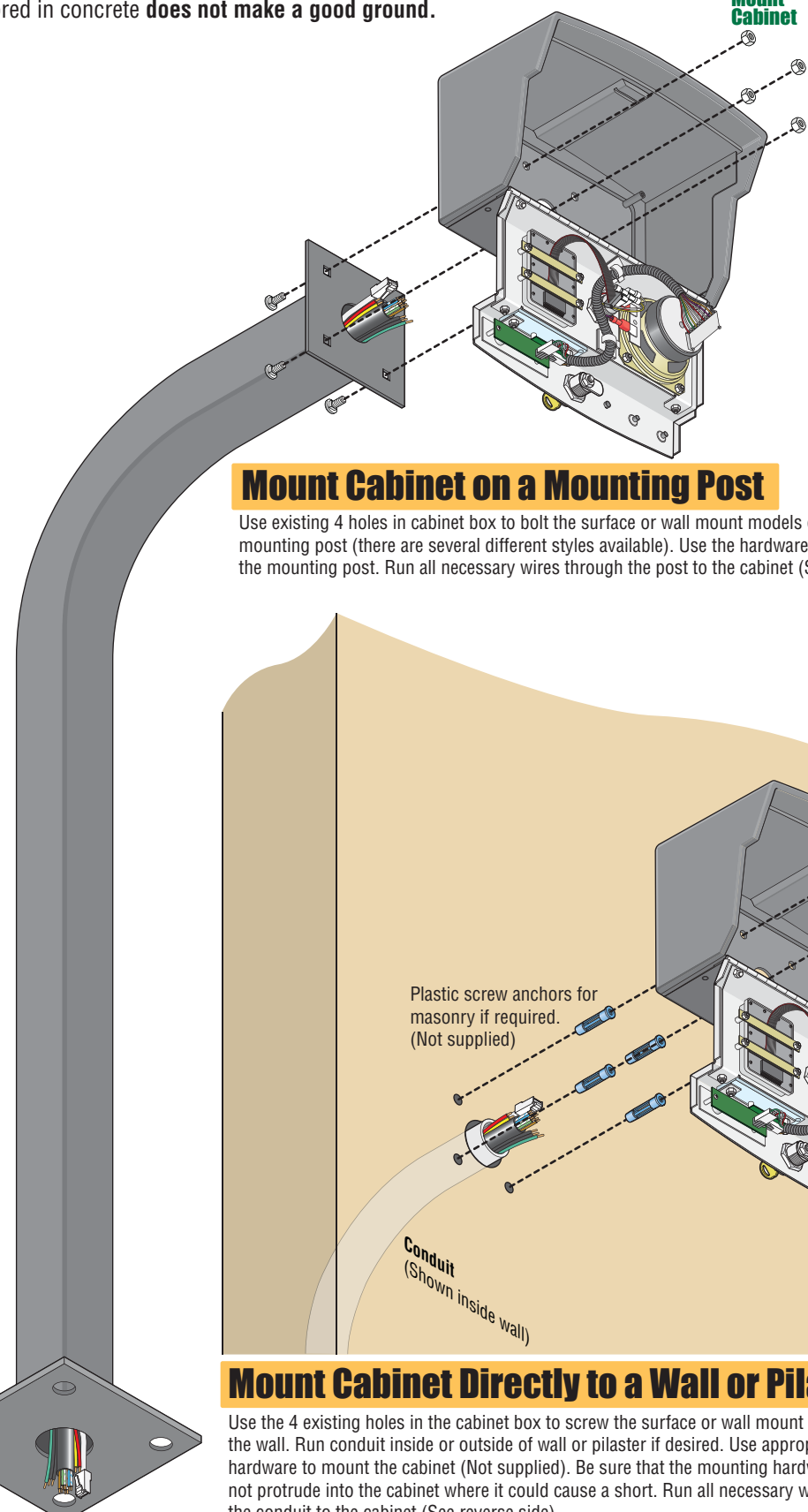
Remove the 18-pin main terminal connector, and if necessary, the 8-pin RS-485 connector from the control board by gently pulling them straight up. This will make wiring to the control board easier. Note the orientation and numbering sequence of each connector to correctly wire it.

**IMPORTANT** The 1812 Access Plus and by-pass board **MUST** be properly grounded! A gooseneck mounting post anchored in concrete **does not** make a good ground.



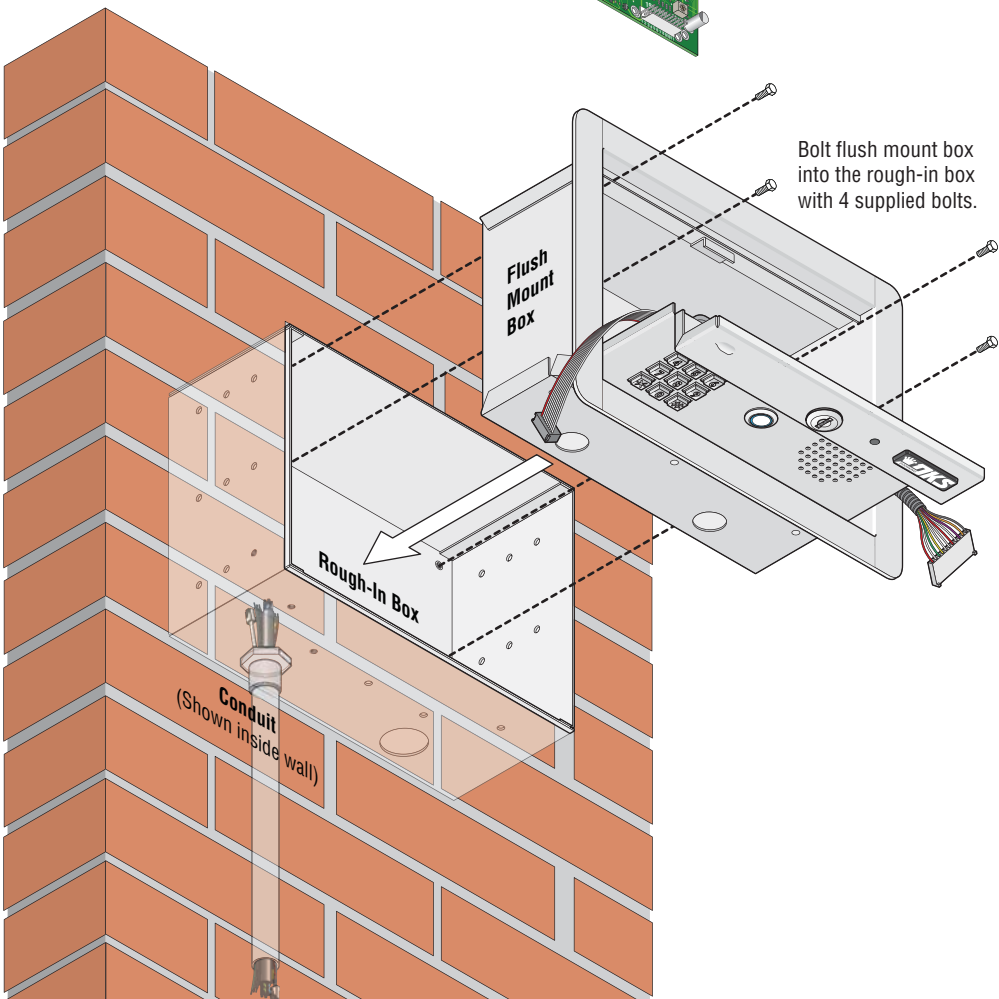
## Mount Cabinet on a Mounting Post

Use existing 4 holes in cabinet box to bolt the surface or wall mount models on a DoorKing mounting post (there are several different styles available). Use the hardware that is supplied with the mounting post. Run all necessary wires through the post to the cabinet (See reverse side).



## Mount Cabinet Directly to a Wall or Pilaster

Use the 4 existing holes in the cabinet box to screw the surface or wall mount models to the wall. Run conduit inside or outside of wall or pilaster if desired. Use appropriate hardware to mount the cabinet (Not supplied). Be sure that the mounting hardware does not protrude into the cabinet where it could cause a short. Run all necessary wires through the conduit to the cabinet (See reverse side).



## Flush Mount Cabinet in a Pilaster, Wall or Kiosk

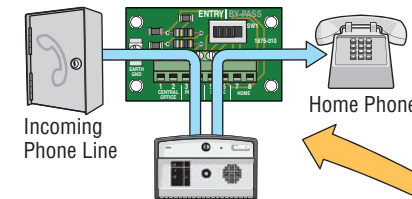
Mount rough-in box into the pilaster, wall or kiosk. Run conduit inside wall into bottom of rough-in box if desired. Use appropriate hardware (Not supplied) to secure the rough-in box in place. Run all necessary wires through the conduit in to the rough-in box (See reverse side).

## Install the By-Pass Board

The 1812 Access Plus by-pass board provides a method to by-pass the 1812 Access Plus and route the incoming telephone line directly to the homeowner's phone. **It must be installed as part of the 1812 Access Plus system.** All telephone wires for the 1812 Access Plus must pass through the by-pass board. Mount the by-pass board in a location that is easily accessible by the homeowner. In case of 1812 Access Plus trouble or maintenance, the homeowner will use the by-pass switch on the board to route the incoming telephone line directly to their home phone. If the by-pass board is installed outdoors, it must be installed in a NEMA Type 4 enclosure (not supplied) with conduit to protect the board and wires from direct exposure to landscape sprinklers, rain, snow, and other elements.

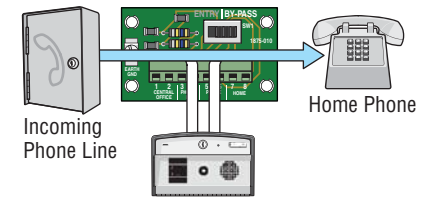
### "Entry" switch position:

Routes incoming phone line through 1812 Access Plus and then to the home phone.

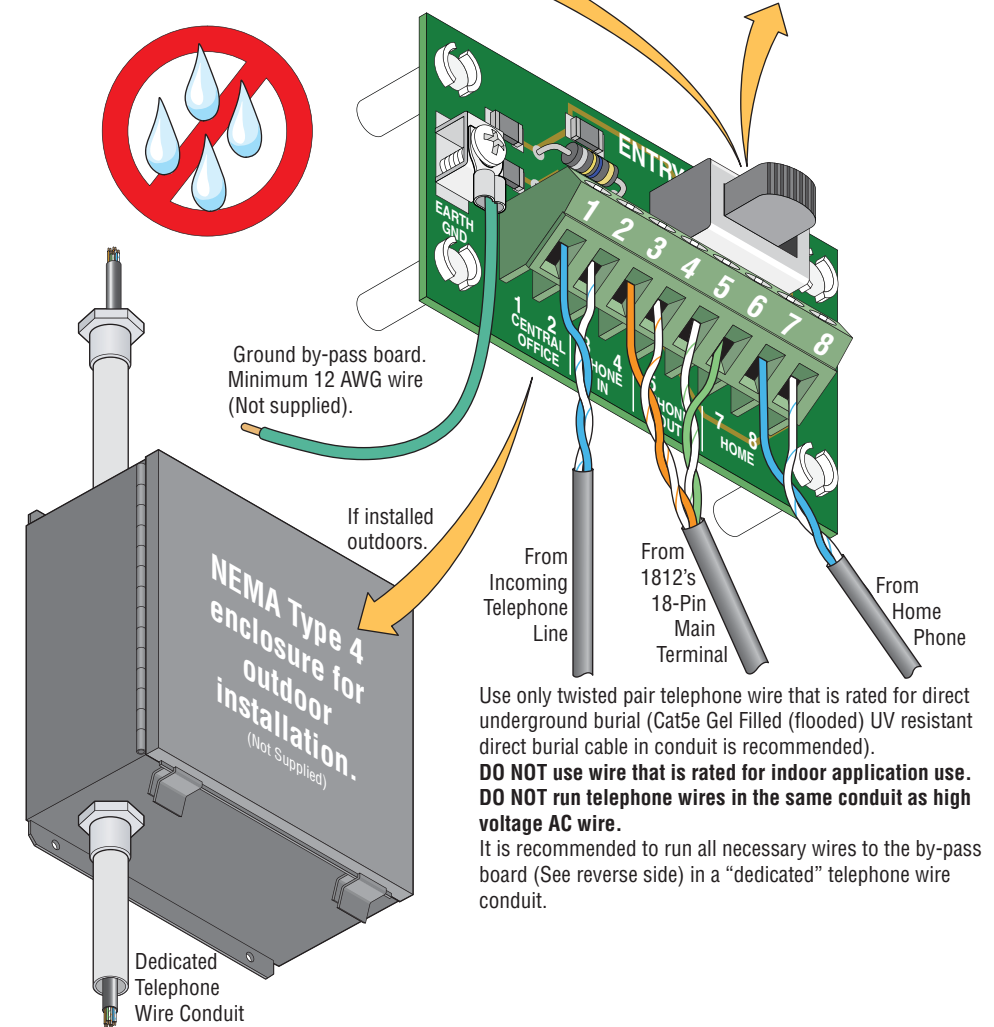


### "By-Pass" switch position:

Routes incoming phone line directly to the home phone, bypassing 1812 Access Plus.



Ground by-pass board. Minimum 12 AWG wire (Not supplied).



Use only twisted pair telephone wire that is rated for direct underground burial (Cat5e Gel Filled (flooded) UV resistant direct burial cable in conduit is recommended). **DO NOT use wire that is rated for indoor application use. DO NOT run telephone wires in the same conduit as high voltage AC wire.** It is recommended to run all necessary wires to the by-pass board (See reverse side) in a "dedicated" telephone wire conduit.

# QUICKSTART "BASIC" WIRING GUIDELINES FOR AN 1812 ACCESS PLUS SYSTEM WITH ACCESS CONTROL DEVICE(S)

It is highly recommended that you consult the Installation/Owner's manual for complete wiring instructions on all the different types of installations, programming and internet connections.



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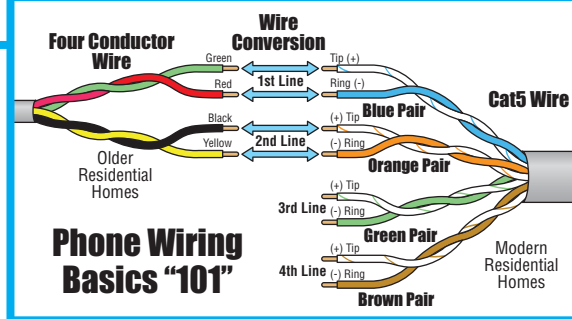
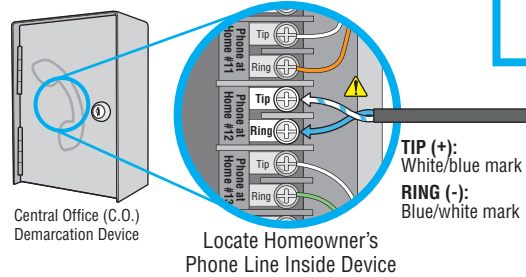
## Basic Programming for the 1812 Access Plus

The 1812 has been programmed at the factory with many of the programming parameters (default setting) set for a typical residential application with a single 1812 Access Plus.

However, **you must program a "Master Code" before putting the 1812 Access Plus into service.** If you are using more than a single 1812 Access Plus in the system, or if you are using any of the advanced features of the 1812 Access Plus, such as Time Zones, Do-Not-Disturb Schedules, Call Forwarding, Holiday Schedules, Hold Open Schedules, Directory Code Dial-Out Phone Numbers, Temporary Access Codes, etc., you will need to download the complete Installation/Owner's and Programming Manual from our tech support web site.

### Telephone Company Demarcation Point

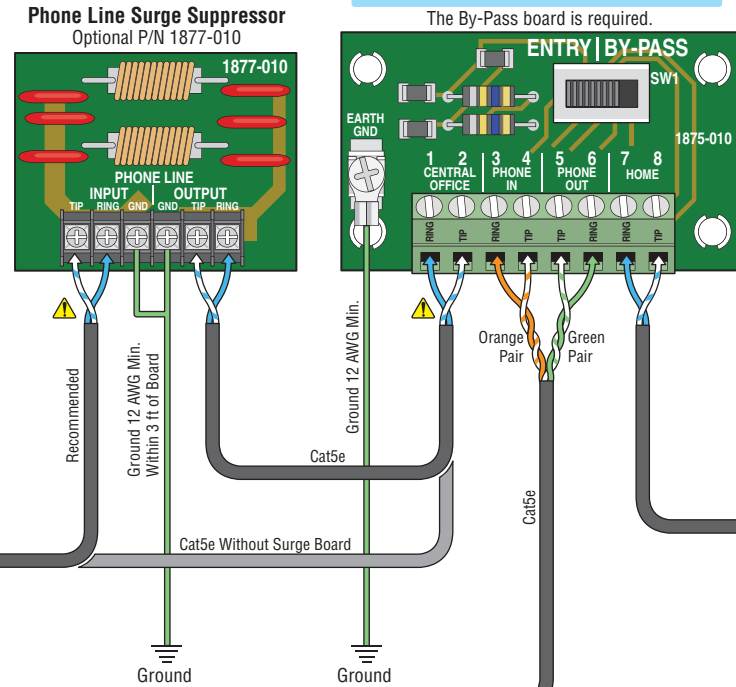
Use common electrical safety practices when connecting telephone wires. You can receive a substantial jolt if the phone rings while handling these wires. "RING" terminal voltage varies and can be between -48 to -130 Volts AC, depending on the distance to the central office. "TIP" terminal is always positive with respect to RING terminal.



### Phone Wiring Basics "101"

## By-Pass Board

The By-Pass board is required.



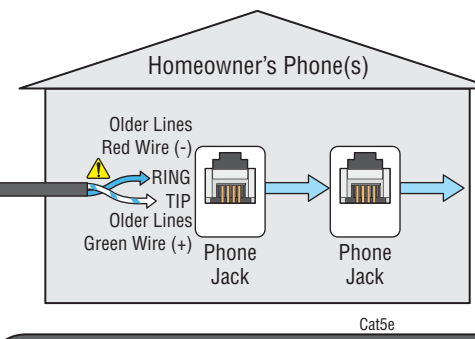
### Telephone and RS 485 Wire Run (Cat5e) Table

| Wire Size | Max Distance |
|-----------|--------------|
| 24 AWG    | 800 ft       |
| 22 AWG    | 1600 ft      |
| 20 AWG    | 2200 ft      |
| 18 AWG    | 3600 ft      |

#### Check Polarity of Telephone Line

Check for polarity on the incoming telephone line to each board and maintain polarity throughout the telephone line (TIP (+), RING (-)).

Cat5e Gel Filled (flooded) UV resistant direct burial cable run in conduit recommended. **DO NOT** run telephone wires in the same conduit as high voltage AC wire.

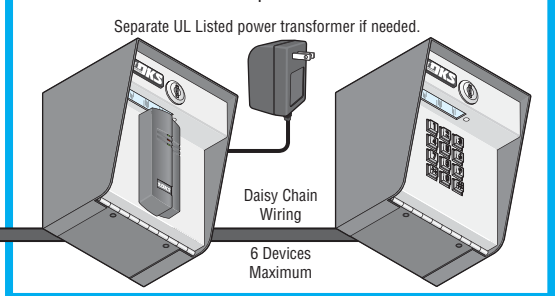


## Complete Instructions

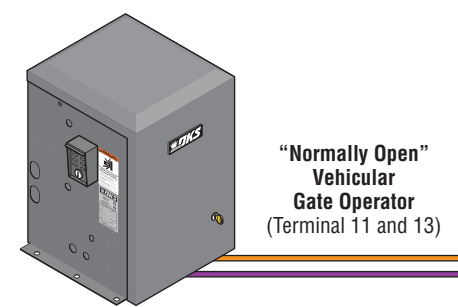
This "Quickstart" guideline is designed for installing a single 1812 Access Plus in a typical single family home application using the factory default settings programmed in the 1812 Access Plus. Complete installation instructions and programming manual is available on the enclosed CD **AND** from our tech support web site. **CLICK HERE TO VISIT DOORKING'S TECHNICAL WEB SITE:** [www.dkaccess.com/english/Telephone\\_Entry/telephone\\_entry.html](http://www.dkaccess.com/english/Telephone_Entry/telephone_entry.html).

## RS 485 Remote Device(s)

See Installation/Owner's manual to configure the RS 485 access control device(s) (device address, termination switch, programming etc). **DO NOT** power RS 485 device(s) from the 1812 Access Plus power transformer.



## Access Control Devices



### Programming Relay 1 and 2 Strike Time - (Factory default is 1 second)

- Press \* 0 3 and enter the MASTER CODE. [\* 0 3 \_\_\_\_ (beep)]
- Enter "1" for relay 1 or "2" for relay 2, then press \*. [ \_ \*(beep)]
- Enter a two-digit strike time (00-99), then press \*. [ \_\_ \*(beep)]  
Note: Strike time entered in seconds. 00 = ¼ sec., 10 = 10 seconds, etc.
- Repeat steps 2 and 3 to set the other relay strike time if necessary.
- Press "0 #" TOGETHER to end. [0 # (beeeeeep)]

**IMPORTANT** All boards **MUST** be properly grounded or the system will **NOT** function correctly!

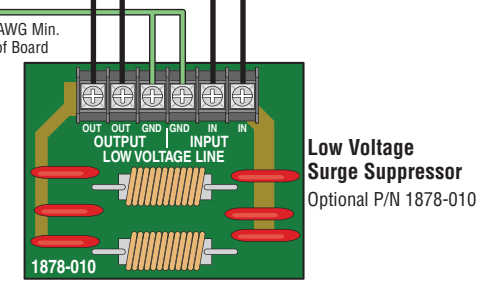
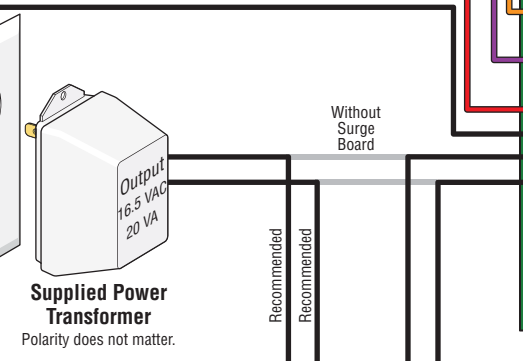
**CAUTION**

**DO NOT** power the 1812 Access Plus from a 24-Volt source (Such as a gate operator). **Damage will occur to the 1812 Access Plus** that is **NOT** covered under DoorKing's warranty.

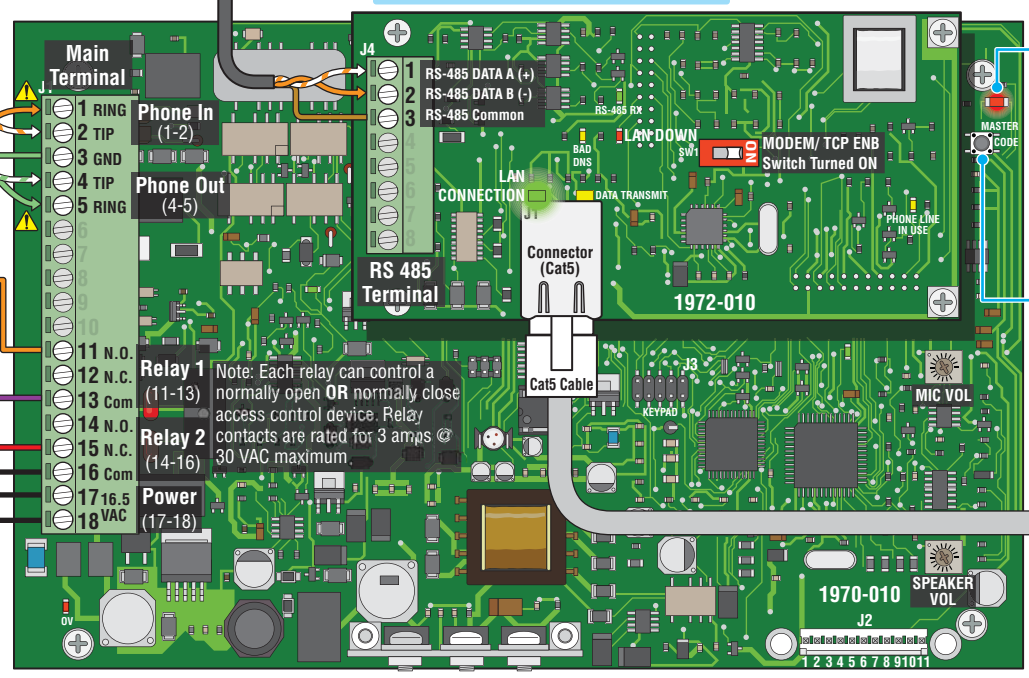
### Power Transformer and Access Control Device(s) Wire Run Table

| Wire Size | Max Distance |
|-----------|--------------|
| 18 AWG    | 100 ft       |
| 16 AWG    | 200 ft       |

**Over Voltage Power Note:** LED located on bottom left corner of board will light up if too much power is applied to circuit board.



## Control Board



## Program MASTER CODE

- Master Code LED Description**
- Blinking LED** - Power is applied to the 1812 Access Plus and the processor is working (Normal Mode).
  - LED ON Continuously** - After master code push button has been pressed, system will be in Master Code programming mode. (Will revert back to blinking LED if master code is not entered within 10-seconds).
- Push Button to Program "Master Code"**
- Press the Master Code push button. (the LED will stay on continuously).
  - Enter a four digit **Master Code** number then press "\*", "beep" will be heard. [ \_\_\_\_ (beep)] (Write down master code).

## To LAN/Router/Gateway

See Installation/Owner's manual for different connections to the internet. MODEM/TCP switch must be **ON**.

## Programming Simple Access Codes

**Programming Simple Access Code(s) to Operate Relay 1 and/or 2 on a 24/7 Basis - (Maximum of 50 codes)**

- Press \* 0 2 and enter the MASTER CODE. [\* 0 2 \_\_\_\_ (beep)]
- Press 1 for relay 1 **OR** Press 2 for relay 2, then press \*. [ \_ \*(beep)]
- Choose and** enter a five-digit **simple** access code, then press \*. [ \_\_\_\_ \*(beep)]
- Repeat steps 2 and 3 to enter additional **simple access codes**.
- Press "0 #" TOGETHER to end. [0 # (beeeeeep)]

