

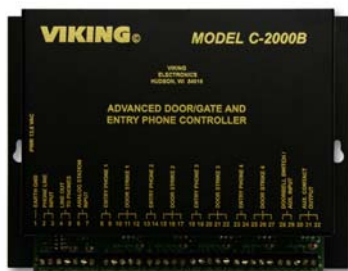
APPLICATION Note

TELECOM SOLUTIONS FOR THE 21ST CENTURY

**Expanding the
C-2000A or
C-2000B**

July 6, 2009

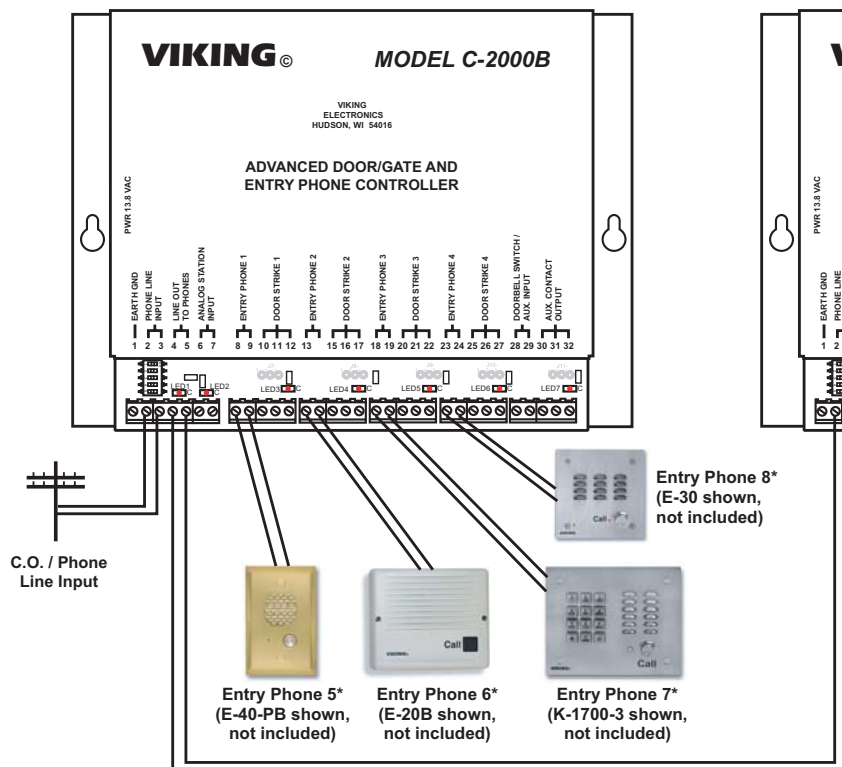
Expand Your Existing C-2000A or C-2000B Door Entry System to 8 Entry Phones



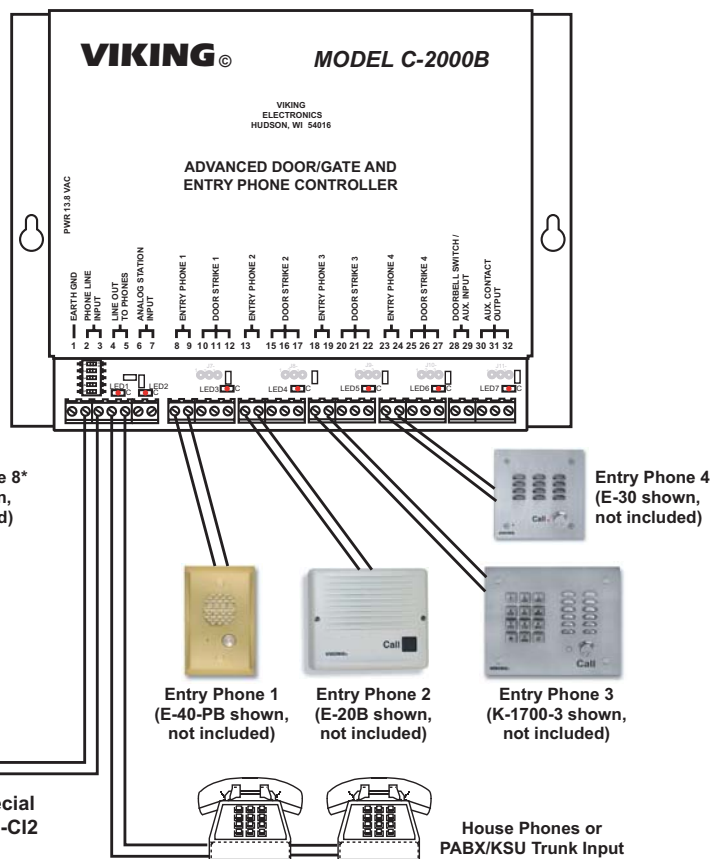
Two C-2000A's or C-2000B's can be wired together in residential or commercial applications for up to 8 entry phones. Any of the 8 entry phones will ring the house phones, PABX or KSU and the phones can then operate the appropriate doorstrike relay. The house phones have the ability to monitor 4 of the entry phones and can monitor all 8 if "dial 9 to access an outside line" is programmed in both controllers. The special software is only required if changing the Caller ID messages on one controller to "Entry Phone 5" through "Entry Phone 8" is desired (versus "Entry Phone 1" through "Entry Phone 4").

Wiring

Model C-2000A or C-2000B #1



Model C-2000A or C-2000B #2



* To change Caller ID messages to Entry Phones 5 - 8, special software is needed: C-2000A = C2KF-CI2, C-2000B = C2KB-CI2

Installation

1. Connect the first four entry phones to C-2000B/C-2000A #2 and any remaining entry phones to C-2000B/C-2000A #1.
2. Special software can be installed in C-2000B/C-2000A #1, to change the Caller ID messages to "Entry Phone 5" through "Entry Phone 8", to better identify the entry phone that is calling. This special software is part number "C2KF-CI2" for the C-2000A and "C2KB-CI2" for the C-2000B and costs \$30.00 per copy. Either of these can be purchased directly from Viking Product Support or through a Viking authorized distributor. Custom software can also be developed (for a nominal programming fee), to change the generic Caller ID messages to help the end-user identify the entry phone that is calling (from "Entry Phone 1" to "Front Gate", "Front Door", "Back Door", etc.). This custom software is normally purchased directly through Viking Product Support and is \$115.00 per copy.
3. If the end-user only needs the ability to monitor 4 of the 8 entry phones or "force" 4 of the 8 doorstrike relays to operate (when no call was originated at the entry phone), both controllers can be programmed with "instant outside line access" ("*6" while in the program mode). This allows the users to make outgoing calls on the telephone line as normal (without having to dial "99" first). If the end-user needs the ability to monitor all 8 entry phones or "force" any of the 8 doorstrike relays to operate (when no call was originated at the entry phone), both C-2000B/C-2000A's must be programmed with "dial 9 to access an outside line" ("*5" while in the program mode). Users will then be forced to dial a "99" before the rest of the telephone number when making outgoing calls.
4. If there is no telephone line connected to the "phone line input" of C-2000B/C-2000A #1 (when the controllers are connected to an unused trunk input of a PBX or KSU), make sure to program C-2000B/C-2000A #1 with "dial 9 to access an outside line" ("*5" while in the program mode).

Programming

If both C-2000B/C-2000A's are programmed with "instant outside line access" (*6 while programming):

Programming C-2000B/C-2000A #2 is normal and these are the options:

1. Pick up a house phone and dial "*" plus the security code (845464 by default).
2. Use the learn mode: set dip switch 2 to on, pick up a house phone, two beeps are heard, you are in the program mode.

Programming C-2000B/C-2000A #1 is different than normal and these are the options:

1. Unplug the AC power from C-2000B/C-2000A #2 while programming C-2000B/C-2000A #1. Once #2 is unplugged (wait until the power LED goes out), pick up a house phone and dial "*" plus the security code (845464 by default).
2. Use the learn mode. On C-2000B/C-2000A #1, set dip switch 2 to on, pick up a house phone, two beeps are provided and you are in the program mode.

If both C-2000B/C-2000A's are programmed with "dial 9 to access an outside line" (*5 while programming):

Programming C-2000B/C-2000A #2 is normal and these are the options:

1. Pick up a house phone and dial "*" plus the security code (845464 by default).
2. Use the learn mode: set dip switch 2 to on, pick up a house phone, two beeps are heard, you are in the program mode.

Programming C-2000B/C-2000A #1 is different than normal and these are the options:

1. Pick up a house phone and dial "99" plus "*" plus the security code (845464 by default).
2. Unplug the AC power from C-2000B/C-2000A #2 while programming C-2000B/C-2000A #1. Once #2 is unplugged (wait until the power LED goes out), pick up a house phone and dial "*" plus the security code (845464 by default).
3. Use the learn mode. On C-2000B/C-2000A #1, set dip switch 2 to on, pick up a house phone and dial "9", two beeps are provided and you are in the program mode.

Operation

1. When the call button is pressed on any of the 8 entry phones, the call will ring through to the house phones, they can answer the call and talk with the visitor. The house phones can then dial any of the normal relay commands to let the visitor in if desired (“**”, “*1” or “*0”).
2. The house phones always have the ability to monitor the 4 entry phones connected to C-2000B/C-2000A #2, using the normal “#1” through “#4” monitor commands. The house phones can only monitor the 4 entry phones connected to C-2000B/C-2000A #1 if both controllers are programmed with “dial 9 to access an outside line” (“*5” while in the program mode). For more information, see item 3 under “Installation”. If both controllers are set to “dial 9 to access an outside line”, the house phones can monitor the 4 entry phones on C-2000B/C-2000A #1 by dialing “99” first, then dialing the normal “#1” through “#4” monitor commands.
3. If both controllers are programmed with “instant outside line access” (because monitoring the 4 entry phones connected to C-2000B/C-2000A #1 is not required), any outgoing calls from the house phones are dialed out as normal. If both controllers are programmed with “dial 9 to access an outside line” (to monitor all 8 entry phones or “force” any of the 8 doorstrike relays to operate even though no call was originated at the entry phone), the users must dial “99” before the local or long distance phone number when making an outgoing call from a house phone.
4. The relays on C-2000B/C-2000A #1 can be “forced” to operate (if both controllers are programmed with “dial 9 to access an outside line”), by picking up a house phone and dialing “99” first, then “#1**” for timed activation of the doorstrike 1 relay, or dialing “99” first then “#2*1” to latch the doorstrike 2 relay, etc. Another way to “force” the C-2000B/C-2000A #1 relays is to pick up a house phone, dial the “99” first, then dial “#1” and wait to be connected to the entry phone. Once the entry phone answers, then the “**”, “*1” or “*0” relay commands can be dialed to activate or deactivate the doorstrike 1 relay.

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