

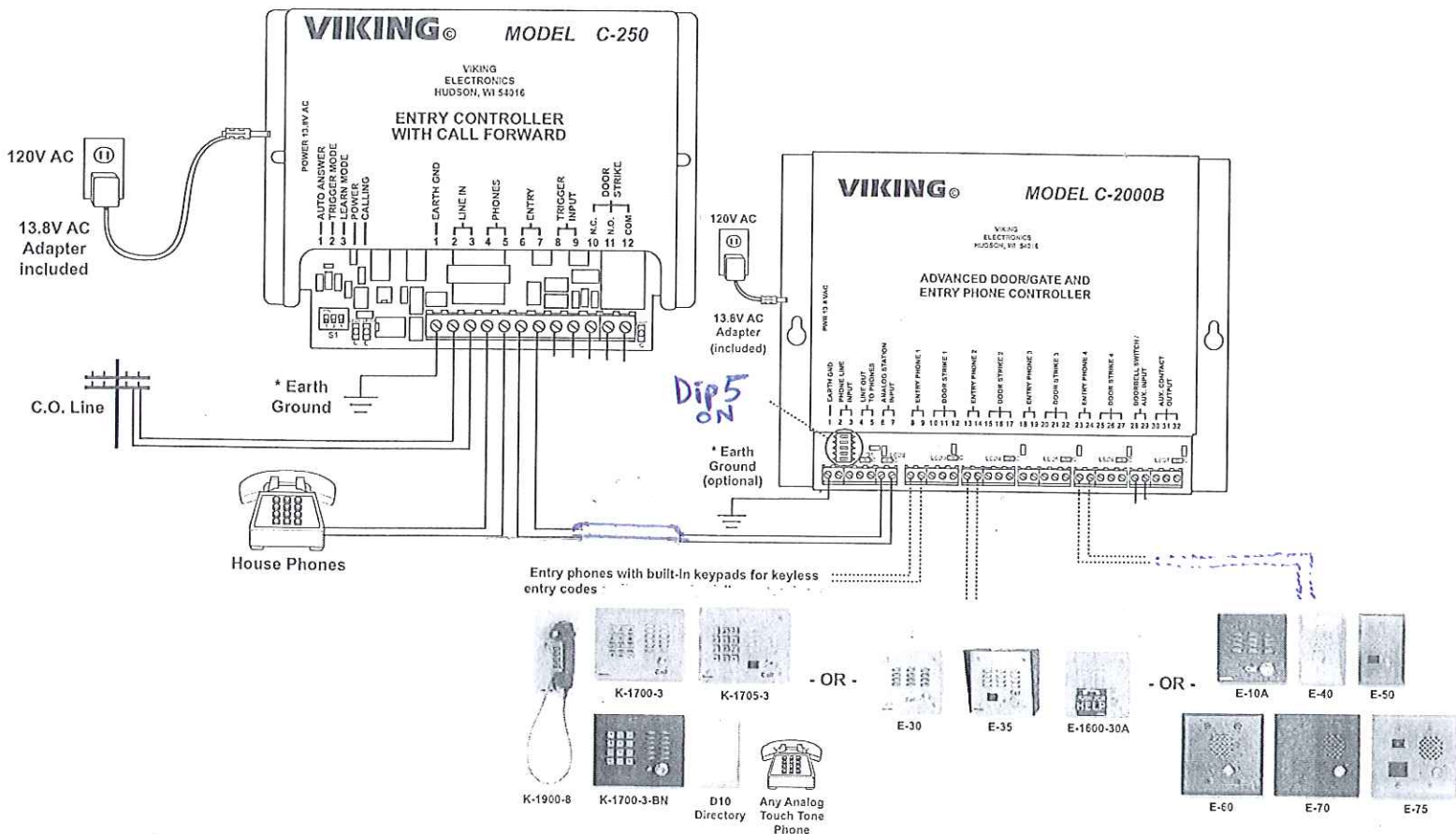
APPLICATION Note

TELECOM SOLUTIONS FOR THE 21ST CENTURY

Add Remote Call Forwarding to the C-2000B Controller
August 12, 2013

Installation

C-250 with "C250-CKB" Software Installed



1. Wire the C-2000B between the C-250 (with C250-CKB software) and the entry phones as shown.
2. Use the C-2000B door strike relays for the door or gate control at each entry phone. The C-250 door strike relay is not used in this application.
3. Set dip 5 on the C-2000B to ON and if remote programming of the C-2000B is required, set dip 1 of the C-250 to ON and program the desired ring delay before the C-250 answers in the C-250 (stored in the "#45" memory location). Remote C-250 programming can also be accessed if a house phone, answering machine, fax, etc answers the call (even with dip 1 of the C-250 to OFF). See section 3 on the next page for details.

Programming:

- A. Accessing the Programming Mode of each controller:
1. Local or remote programming mode of the C-250 can be accessed in the normal fashion. See note 3 below and refer to the C-250 technical practice for details.
 2. Local programming mode of the C-2000B can be accessed from any house phone wired to the C-250 controller. Pick up a house phone and provide a hookswitch flash within the first 5 seconds after going off hook. The C-250 will ring the C-2000B. The C-2000B will answer and provide one beep. Then dial “*#” plus the six digit security code for the C-2000B (default is “845464”). You will get two beeps and are in the C-2000B program mode.
 3. Remote programming mode of the C-2000B can be accessed but the remote programming mode of the C-250 must be accessed first. Remote programming of the C-250 is only possible when the C-250 is programmed to answer inbound calls after a set number of rings, or if a house phone (or answering machine, fax, etc) answers the call and the correct touch tone string is dialed. Once the C-250 (or a house phone) answers the call, dial “*” plus the six digit security code for the C-250 (default is “845464”). Then dial “##1” and the C-250 will ring the C-2000B. The C-2000B will answer and provide one beep. Then dial “*#” plus the six digit security code for the C-2000B (default is “845464”). You will get two beeps and are in the C-2000B program mode.
 4. The programming mode of an entry phone can be accessed if needed. Access the program mode of the C-2000B either locally or remotely (as described above) and use the C-2000B’s “##1” to “##4” commands to ring to one of the four entry phones for programming. When finished programming, simply hang up. The entry phone will time out and hang up 20 seconds later.
- B. If keyless entry codes will be programmed in the C-2000B, the C-250 must be programmed with one keyless entry code, but this keyless code will never be used by an entry phone. To program this keyless code, access the programming mode of the C-250 and dial any six digit number followed by “#10”.
- C. Program the C-250 with “#41” to disable the C-250 relay command.
- D. The keyless entry codes for the entry phones and the relay timing for all relays are programmed in the C-2000B controller. The programming mode of the C-2000B can be accessed as described above. Refer to the C-2000B technical practice for complete details.

Operation

If no keyless entry codes are programmed in the C-250 (and C-2000B) and an entry phone goes off hook, the house phones (or remote phones) will start ringing immediately. When keyless entry codes have been programmed in the C-250 (and C-2000B) and an entry phone goes off hook, the C-250 provides a single beep to the entry phone. The user then has four seconds to enter “#” plus a 4 to 6 digit keyless entry code to let themselves in. If a valid (C-2000B) keyless code is entered, the doorstrike relay for that entry phone will be energized and a buzz is heard at the entry phone. If the entry phone doesn’t dial any touch tones at all or does not dial “#” before other touch tones, the house phones (or remote phones) will start to ring and standard operation will continue. If an invalid code is entered, the entry phone is provided with a CPC signal followed by a busy signal.

When a call from an entry phone has been answered by the house phones or a remote phone, the normal C-2000B relay commands can be dialed to open a door or gate for the visitor. “**” provides timed activation of the appropriate doorstrike relay.

The house phones are able to monitor any of the four entry phones by providing a hookswitch flash within the first 5 seconds after going off hook. The C-250 will ring the C-2000B and the C-2000B will answer and provide a single beep. To monitor an entry phone, dial “#1” to “#4” to monitor any of the four entry phones. To force a certain doorstrike relay to operate, a monitor plus doorstrike command can be entered. For example, dialing “#1**” provides “timed” activation of the doorstrike one relay.

Remote monitoring of entry phones or remotely forcing relays to operate is also possible but only if the C-250 is programmed to answer inbound calls after a set number of rings, or if a house phone (or answering machine, fax, etc) answers the call. To remote monitor or activate a relay, call the telephone line connected to the C-250 and once the C-250 (or a house phone) answers, dial “*” plus the six digit security code for the C-250 (default is “845464”). Then dial “##1” and the C-250 will ring the C-2000B. The C-2000B will answer and provide one beep. Then dial “#1” to “#4” to monitor an entry phone or dial a four digit string like “#1**” to force a doorstrike relay to operate. Refer to “Section C. Activating Doorstrike/Gate” on page 15 of the C-2000B technical practice for a list of codes used to operate the relays.