

# CROWN JEWEL ADVANCED FEATURES PROGRAMMING GUIDE

Sentexsystems



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# PART 1

## PROGRAMMING OVERVIEW

### A. INTRODUCTION

The Crown Jewel is a single-line telephone entry system that connects directly to your telephone line. When visitors call you through the Crown Jewel unit, the calls are not routed through the telephone company. No telephone charges are generated.

The procedures in this manual assume that you have already read the manuals for your Crown Jewel system (Crown Jewel Installation Guide, Doc. No. 6001145, and Crown Jewel Basic Programming, Doc. No. 6001146). If not, please read the manuals before continuing.

You can program the following features on your Crown Jewel unit:

- Visitor entry:**
- When the visitor presses the “#” key on your unit’s keypad, the Crown Jewel rings your telephone.
  - You can communicate with the visitor and allow entry at the main gate by dialing 9.
  - If the Crown Jewel unit is controlling a second gate, you can dial 5 to allow entry.
- Call Waiting:**
- If your telephone is in use when a visitor calls, the Crown Jewel will notify you. You can put your current call on hold and speak with the visitor.
  - If you are talking with a visitor and you receive a phone call, the Crown Jewel will notify you. You can put the visitor on hold while you take your new phone call.
  - If you forget that a call was on hold and hang up the phone, the Crown Jewel will ring your telephone. When you pick up the phone, your call will be put through.
- Entry Codes:** You can grant access through the use of 4-digit entry codes. You can program up to 75 different entry codes to allow access through the Crown Jewel unit.
- Time Zones:** You can restrict the use of entry codes by limiting the days and times that a code is valid.
- Call Forwarding:** The Crown Jewel unit can be programmed to dial an outside telephone number (instead of ringing the house) when a visitor presses a “#” key on the front panel of the unit. This feature allows you to grant access to a visitor from a remote location.
- Do Not Disturb Feature** The Crown Jewel can block visitor calls during time periods you specify. This command can either be sent directly to the unit; or you can set up schedules that will activate and deactivate this feature automatically.
- Visitor calling directly to a guest house, etc.** The Crown Jewel can be programmed to have a visitor call placed to a location other than the main residence, such as a guest house. The Crown Jewel has the capacity for three codes.
- Timed control of gate & auxiliary relays** You can program the Crown Jewel unit to automatically activate, and later deactivate, any device controlled by the unit’s relays. For example, the Crown Jewel can automatically open the main gate up to twice per day and close it later.
- You can also program up to 10 holidays on which these schedules will not operate unless you want them to.
- Direct control of gates** You can activate the controlled gates or accessories can be activated directly from your tone dial telephone.
- Off-site remote programming** You can program the Crown Jewel unit from a remote location, such as an outside tone dial telephone, or a personal computer with a modem.

**Gate monitoring:** Your Crown Jewel installer can place sensors on the main gate to detect whether it is closed. You can program the Crown Jewel to respond in the following ways if the gate is forced open or is held open 60 seconds after it should have been closed.

1. **Place an alarm call:** The unit will ring a pre-programmed outside telephone number and make a continuous “hi-low” sound.
2. **Close a relay:** If relay 2 is programmed as an alarm relay, the unit will close that relay to activate the device connected to it. For example, you may have an installer connect a siren, or Closed Circuit Television Camera.

**Free exit through a monitored gate** The unit can provide free exit through a controlled entry point.

**Transactions:** The Crown Jewel retains a record of the last 250 gate actions and programming entries, including the time and date of the activity and, in the instance of entry codes transactions, the person involved. Please ask your installing dealer for details on how these records may be retrieved via modem.

## B. PROGRAMMING BASICS

You can program the Crown Jewel from:

- The keypad mounted on the face plate of the unit
- The residence telephone; you will need a tone-dial telephone
- A remote telephone; you will need to use a tone-dial telephone to call the residence

### ENTER PROGRAMMING MODE

Begin by signalling the Crown Jewel unit that you want to enter programming mode.

#### From The Keypad

1. Press the asterisk key three times (“\*\*\*”).
2. The Crown Jewel is now ready to accept programming instructions.

#### From the Residence Telephone

1. When you hear the dial tone, press the asterisk key three times (“\*\*\*”).
2. Enter the six digit password. The unit will emit a high-pitched tone.
3. Press the pound key (“#”). The tone will stop.
4. The Crown Jewel is now ready to accept programming instructions.

#### From a Remote Telephone

1. Dial the residence telephone number.
2. When the Crown Jewel picks up the call, press the asterisk key three times (“\*\*\*”).
3. Enter the six digit password. The unit will emit a high-pitched tone.
4. Press the pound key (“#”). The tone will stop.
5. The Crown Jewel is now ready to accept programming instructions.

## PROGRAMMING THE CROWN JEWEL

Each programming command consists of: the **programming prefix** (usually “##”); a **2-digit step number**; the required digits of **data**; ending with the “#” (**pound**) **key** to terminate the programming step. The **step number** tells the Crown Jewel which setting to change. The **data** is your new value for that setting.

If the step and data information are valid, the unit will respond with 2 short beeps. If you do not hear 2 short beeps, the unit did not understand your input.

If you realize in the middle of an entry that you might have made an **error**, press the “\*” (asterisk) key to cancel the command. Begin again with the step number.

**Example:** ##01123456#

**Programming prefix:** ##

**Two-digit step number:** 01 – set the unit password

**Six-digit data:** 123456 – the new password

**End step:** # - the pound key

## EXIT PROGRAMMING MODE

To signal the Crown Jewel that you want to exit programming mode, press “00#” (two zeroes and the pound key).

**Keypad:** the unit will disconnect.

**Telephone (residence or remote):** the unit respond with three short beeps. Hang up the phone.

## C. SETTING THE DATE AND TIME (STEP 27)

The Crown Jewel unit contains an internal calendar and clock which is used for:

- Time stamping of transactions
- The Do Not Disturb feature
- Entry codes with time zones
- Gate unlock schedules
- Call Forwarding schedules.

Be sure to set the current date and time before trying to use any of these features.

**Format** 27 + year + month + date + day of the week + hour + minute + “#”.

- The year, month, date, hour and minute are entered as two digits.
- The hour is entered in twenty-four hour format; for example, the time of 7:20 PM is entered “1920”; the hour for 7:20 PM is entered “19”; the minutes are entered “20”.
- The days of the week are numbered as follows:
  - 1 = Sunday
  - 2 = Monday
  - 3 = Tuesday
  - 4 = Wednesday
  - 5 = Thursday
  - 6 = Friday
  - 7 = Saturday

**Example** 27 + 94 + 09 + 28 + 4 + 15 + 30 + #

(sets the unit’s clock for 3:30 PM on Wednesday, September 28, 1994).

**NOTE:** The internal calendar automatically adjusts for leap years, but does not automatically adjust for daylight savings time.

## D. SYSTEM RESPONSES

The Crown Jewel emits various audio tones or beeps to respond to input or to indicate certain conditions. These tones and beeps will tell whether the Crown Jewel has understood your programming instructions or Direct Commands.

### **Programming Responses:**

- 2 short beeps - a programming step was valid
- 3 short beeps - the programming mode was exited
- 1 long beep - an input was not valid
- 2 long beeps - a duplicate entry code was entered
- 3 long beeps - the code memory is full
- 4 long beeps - the unit has reset or is powering up
- busy signal - the line is busy or Do Not Disturb feature is in effect

### **Direct Command Responses:**

- 5 short beeps - a gate is closing by command
- 10 short beeps - a gate is opening by command

### **Other Responses**

- 1 short beep - a key was pressed on the main keypad
- 10 beeps (1 per second) - the talk time for a visitor call is lapsing and the unit will beep once per second for the last 10 seconds unless the talk time is extended.
- ring back - the unit is ringing the house
- continuous hi-low tones - an alarm condition has been activated

**silence** the keypad has struck out; the unit is being programmed from another source; or an alarm condition exists

## PART 2

# TIME ZONES AND HOLIDAYS

### A. PROGRAMMING TIME ZONES (STEP 25)

The Times Zones feature allows you to set up time periods and days during which access is restricted for entry codes. For example, the gardener's entry code will only grant access on Mondays between the hours of 9:00 AM and 3:00 PM.

You can program up to seven two zones, with two segments each.

#### Format

25 + time zone number + segment number + starting time + ending time + days of the week + "#".

- Time zone numbers range from 1 to 7 with two segments for each time zone (numbered 1 or 2).
- Starting and ending times are four digits long in 24-hour format.
- The days of the week are numbered as follows:
  - 1 = Sunday
  - 2 = Monday
  - 3 = Tuesday
  - 4 = Wednesday
  - 5 = Thursday
  - 6 = Friday
  - 7 = Saturday
  - 8 = Holidays

**Example** 25 + 2 + 1 + 0800 + 1700 + 234568 + #

(sets time zone 2, segment 1 to start at 800 AM and end at 5:00 PM Monday through Friday and holidays).

#### Note

- To set up a time zone that extends past midnight and into the next day, create one segment that runs until midnight (for example, Monday through Friday from 8 PM to 12 AM) and a second segment that starts at midnight on the following days (for example, 12AM to 4AM on Tuesday through Saturday).
- If you want a time zone to be valid on holidays, you must also program that time zone to be valid for a day of the week.

### B. SETTING HOLIDAYS (STEP 28)

Holidays are special calendar dates which can be used to modify the action of:

- Do Not Disturb Schedules
- Gate Unlock Schedules
- Entry Codes with Time Zones
- Call Forwarding Schedules

For example, if New Year's Day is set up as a holiday, then entry codes that would ordinarily be allowed access will not be granted entry on January 1st. You can program up to 10 holidays.

**Format** 28 + holiday number + month + date + "#"

- The holiday number is one digit (0 through 9).
- The month and date are each entered as two digits.

**Example** 28 + 1 + 0101 + #

(sets January 1st as holiday number 1).

# PART 3

## ENTRY CODES

The following steps enable you to program and delete entry codes. Entry codes can be used to gain access without using a key or contacting you. The Crown Jewel unit has capacity for 75 entry codes. You can program entry codes that open the main gate and are valid at all times. If you want to restrict access, you can program entry codes to activate specific relays; and/or grant access only during specified Time Zones (see Part 2, Section A).

### A. CREATING AN ENTRY CODE (STEP 03)

**Format** 03 + entry code + relay code (optional) + time zone (optional) + “#”

- Entry codes are four digits long, between the numbers 0000 and 9999 inclusive.
- Relay Codes: 0 = Cycle default relay for its normal activation time  
1 = Cycle main gate for its normal activation time  
2 = Cycle auxiliary relay for its normal activation time  
3 = Latch main gate open  
4 = Latch auxiliary relay  
5 = Release main gate  
6 = Release auxiliary relay  
7 = Release both  
8 = Cycle both for normal activation times  
9 = Latch both
- Time Zones are one digit long.

**Examples**

Entry code for main gate, valid at all times: 03 + 2468 + “#”  
(sets entry code 2468 to activate the main relay, valid at all times).

Entry code with relay code only: 03 + 3579 + 2 + “#”  
(sets entry code 3579 to cycle the auxiliary relay for the normal activation time).

Entry code with Time Zone code only: 03 + 9631 + 3 + “#”  
(sets entry code 9631 to cycle the default relay during Time Zone 3 only).

Entry code with relay code and time zone: 03 + 1234 + 1 + 2 + “#”  
(sets entry code 1234 to cycle relay 1, valid during Time Zone 2).

Keypad associated relay code: 03 + 0 + “#”  
(activates the relay associated with the keypad from which the code was entered). If a “0” or no relay code is entered on the Crown Jewel keypad, relay 1 will activate; if entered at the Auxiliary Keypad, relay 2 will activate.

### B. DELETING AN ENTRY CODE (STEP 04)

This programming step erases an entry code from the unit’s memory.

**Format** 04 + entry code to erase + “#”

- Entry codes are four-digits long.

**Example** 04 + 1234 + #  
(erases entry code 1234 from the unit’s memory).

### C. DELETING ALL ENTRY CODES (STEP 05)

This programming step will erase all the entry codes in the unit’s memory.

**Format** 05 + 101010 + “#”

# PART 4

## VISITOR CALL FEATURES

### A. SETTING THE VISITOR CALL DOUBLE RING (STEP 06)

**Factory Setting:** 2 (double ring).

**Format** 06 + ring type + “#”

- Ring types:
  - 1 = single ring
  - 2 = double ring

**Example** 06 + 2 + #  
(double ring)

### B. SETTING THE MAXIMUM VISITOR CALL RING COUNT (STEP 07)

You can program the number of rings the unit will allow before it discontinues the call placed to the residence.

**Factory Settings:** 12.

**Format** 07 + number of rings + “#”

- Number of rings can be set from 1 to 24; this entry is 1 or 2 digits long.

**Example** 07 + 6 + #  
(sets the unit to discontinue the visitor call after 6 rings to the house).

### C. SETTING TALK TIME (STEP 08)

Sets the maximum length of a call that can be made by a visitor.

**Factory Settings:** 90 seconds.

**Format** 08 + number of seconds + “#”.

- This length can be set from 15 to 250 seconds; the entry will be two or three digits long.

**Example** 08 + 120 + #  
(sets the talk time to 2 minutes).

- NOTES**
1. When the Crown Jewel is calling the residence during a normal visitor call, the talk time starts when the call is answered.
  2. When the Crown Jewel is calling a Call Forwarding number, the talk time starts immediately after the number is dialed.
  3. When there are 10 seconds of talk time left, the unit will beep 1 once each second to notify you. If you wish to extend the talk time, press “1” (one key) now.

## D. ENABLING/DISABLING PULSE DIAL ACTIVATION (STEP 09)

You can enable a resident to open the main gate by dialing "9" on a pulse (rotary) telephone in the residence. You can also disable this feature.

**Factory Setting:** 0 (disabled).

**Format** 09 + pulse dial mode + "#"

- This entry is one digit long.  
0 = disable the Pulse Dial 9 feature  
1 = enable the Pulse Dial 9 feature

**Example** 09 + 1 + #  
(enables the Pulse Dial 9 feature).

**NOTE** Pulse dialing cannot be used for any other visitor response, for programming, or for direct commands.

## E. ENABLING/DISABLING CALL WAITING (STEP 10)

You can enable or disable the Call Waiting feature.

**Factory Setting:** 1 (Call Waiting enabled).

**Format** 10 + Call Waiting mode + "#"

- Call Waiting is one digit long:  
0 = disable Call Waiting  
1 = enable Call Waiting

**Example** 10 + 0 + #  
(disables the Call Waiting feature).

## F. CHANGING THE VISITOR CALL RESPONSE KEYS (STEP 34)

You can change the keys you press on your telephone keypad in response to visitor calls.

**Factory Setting:** 9521★

"9" for Main Gate activation  
"5" for Auxiliary Relay activation  
"2" for Call Waiting Toggle Digit  
"1" for Extend Talk Time Digit  
"★" for Hang-up Key

**Format** 34 + main gate activation digit + auxiliary relay activation digit + call wait toggle digit + extend talk time digit + hang-up digit + "#"

**Example** 34 + 1 + 2 + 6 + 7 + 8 + #  
(Changes main gate activation digit to "1", auxiliary activation digit to "2", call waiting toggle digit to "6", extend talk time digit to "7", and hang-up key to "8").

**NOTE** If you want to restore the response keys to the factory settings, simply enter "34#".

## G. VISITOR CALLS TO GUEST HOUSES

The Crown Jewel has the ability to let a visitor place a call to a location other than the main residence. This feature is utilized when the visitor presses either "1#", "2#", or "3#" in the unit's keypad.

**Format** 19 + dialing code number + telephone number + "#"

- Dialing code number is one digit long; it may be 1, 2 or 3.
- Telephone number may be up to 11 digits long.

**Example** 19 + 2 + 5551212 + #  
(sets dialing code 2 to dial 555-1212 when 2# is pressed on the unit's keypad).

# PART 5

## DO NOT DISTURB FEATURE

The Do Not Disturb feature allows you to block visitor calls during specific times.

**NOTE:** Be sure you set the unit's date and time before using the Do Not Disturb feature.

### A. ACTIVATING THE DO NOT DISTURB UNTIL FEATURE (STEP 89)

You can use this feature block calls until a specific time. Call blocking begins immediately.

**Format** 89 + ending time + “#”

- The ending time should be four digits long, in 24-hour format.

**Example** 89 + 0715 + #  
(visitor calls will be blocked until 7:15 AM).

**NOTE** This step temporarily overrides any Do Not Disturb Schedule that may be programmed.

### B. CANCEL DO NOT DISTURB UNTIL (STEP 89)

The procedure cancels call blocking immediately.

**Format** 89 + 99 + “#”

- Enter “99” as the ending time.

### C. SETTING UP A DO NOT DISTURB SCHEDULE (STEP 11)

Use this programming step to block calls at regularly scheduled times.

**Format** 11 + day of the week + starting time + ending time + holiday option + “#”

- Day of the week is one digit long:
  - 1 = Sunday
  - 2 = Monday
  - 3 = Tuesday
  - 4 = Wednesday
  - 5 = Thursday
  - 6 = Friday
  - 7 = Saturday
  - 8 = Holidays
- The starting and ending times should be 4 digits long, in 24-hour format.
- The holiday option is one digit long:
  - 0 = No schedule on holidays
  - 1 = Use same schedule on holidays holiday
  - 2 = Use schedule number 8 when this day falls on a programmed holiday

**Example** 11 + 2 + 2315 + 0830 + 1 + #  
(sets a Do Not Disturb schedule for Mondays from 11:15 PM until 8:30 AM the following morning and includes holidays).

## D. DELETING A DO NOT DISTURB SCHEDULE (STEP 11)

**Format** 11 + day of the week + 99 + “#”

- Day of the week is one digit long:
  - 1 = Sunday
  - 2 = Monday
  - 3 = Tuesday
  - 4 = Wednesday
  - 5 = Thursday
  - 6 = Friday
  - 7 = Saturday
  - 8 = Holidays
- Enter “99” for the starting time.

**Example** 11 + 2 + 99 + #  
(Deletes the Do Not Disturb schedule for Mondays).

## E. ENABLING/DISABLING THE DO NOT DISTURB SCHEDULE (STEP 12)

Use this programming step to temporarily disable or re-enable the Do Not Disturb Schedule.

**Factory Setting:** 0 (disabled).

**Format** 12 + Do Not Disturb mode (1 digit) + “#”

- Do Not Disturb mode is one digit long:
  - 0 = Ignore Do Not Disturb Schedule
  - 1 = Enable Do Not Disturb Schedule

**Example** 12 + 1 + #  
(Crown Jewel re-enables Do Not Disturb Schedule).

# PART 6

## GATE CONFIGURATION

### A. SETTING THE MAIN GATE ACTIVATION TIME (STEP 23)

You can program the time the main gate will remain activated.

**Factory Setting:** 10 seconds.

**Format**            23 + number of seconds + “#”

- The number of seconds can be up to three digits long; it can be set for 1 to 250 seconds.

**Example**            23 + 35 + #  
(sets relay 1 to remain activated for 35 seconds).

#### IMPORTANT NOTE

If this relay activates a gate operator with a momentary contact closure, set the relay activation time for a short period (for example, 2 seconds). A longer activation time might cause the gate to repeatedly open and close until the activation period has expired.

### B. SETTING AUXILIARY RELAY AND STATUS 2 INPUT CONFIGURATION (STEP 26)

You can program the modes of operation of the auxiliary relay and the status 2 input.

The auxiliary relay can be used to:

- Control a second gate
- Bypass (shunt) an alarm sensor
- Trigger an alarm device such as a siren
- Activate an accessory such as CCTV

The status 2 input can be used as:

- An exit request for the second gate
- A sensor to detect the closed position of the main gate.

**Factory Setting:** 0 (Relay 2 is Control, Status 2 is Exit Request).

**Format**            26 + configuration number (0 through 5) + “#”

- The configuration number is one digit long, 0 through 5:

Configuration Number	Relay 2	Status 2	Video On
0	Control	Exit Request 2	
1	Shunt	Position Sense 1	
2	Alarm	Position Sense 1	
3	CCTV	Position Sense 1	Manual
4	CCTV	Position Sense 1	Immediate
5	Control	Position Sense 1	

**Example**            26 + 3 + #  
(sets relay 2 for alarm and Status 2 for Position Sense 1).

**SEE NOTES ON FOLLOWING PAGE**

- NOTES** If the second relay is set to configuration number:
- 0 During a visitor call, the relay will activate when you dial a "5" and the call will terminate or the relay will activate when the Exit Request Device has been activated.
  - 1 The second relay will activate whenever the main relay activates to temporarily bypass an alarm sensor monitoring this entry.
  - 2 The second relay will activate upon an alarm condition (see Alarm Feature).
  - 3 The closed circuit TV will activate when you dial a "5" on your telephone, but the visitor call will not be terminated until you either grant access or dial a "★" to terminate the call.
  - 4 The closed circuit TV will activate when any key is pressed on the main keypad.
  - 5 During a visitor call, the relay will only activate when you dial a "5" and then the call will be terminated.

### C. SETTING AUXILIARY RELAY ACTIVATION TIME (STEP 24)

You can program the amount of time the auxiliary relay will remain activated.

**Factory Setting:** 10 seconds.

**Format** 24 + number of seconds (up to 3 digits) + "#"

- The number of seconds can be up to three digits; it can be from 1 to 250 seconds.

**Example** 24 + 5 + #  
(sets relay 2 to remain activated for 5 seconds).

#### **IMPORTANT NOTE**

If this relay activates a gate operator with a momentary contact closure, set the relay activation time for a short period (for example, 2 seconds). A longer activation time might cause the gate to repeatedly open and close until the activation period has expired.

# PART 7

## UNLOCK SCHEDULES

The Crown Jewel unit can automatically open any gate and close it later. This unit function is known as the Unlock Schedules feature. Each day of the week can have up to 2 time segments. On programmed holidays, the schedule can automatically be ignored or changed to the alternate Holiday schedule.

**NOTE:** Be sure to set the Crown Jewel's date and time before using the Unlock Schedule feature.

### A. SETTING AN UNLOCK SCHEDULE FOR THE MAIN GATE (STEP 41)

You can program the Crown Jewel to automatically unlock and relock the main gate.

**Format** 41 + day of the week + segment + opening time + closing time + holiday option + “#”

- The day of the week is one digit long:
  - 1 = Sunday
  - 2 = Monday
  - 3 = Tuesday
  - 4 = Wednesday
  - 5 = Thursday
  - 6 = Friday
  - 7 = Saturday
  - 8 = Holidays
- The segment is one digit long, either 1 or 2.
- The opening and closing times are four digits long, in 24-hour format.
- The holiday option is one digit long:
  - 0 = No schedule on holidays
  - 1 = Use same schedule on holidays
  - 2 = Use schedule number 8 when this day falls on a programmed holiday

**Example** 41 + 2 + 1 + 0800 + 1700 + 1 + #  
(sets segment 1 for the main gate to open at 8 AM and close at 5 PM on Mondays and Holidays).

- NOTES**
1. To unlock the gate early on a scheduled day, use step 93 (Latch main gate).
  2. To close a gate early on a scheduled day, use step 95 (Release main gate).
  3. To extend the unlock period beyond the scheduled closing, use step 98 (Latch main gate until).

## B. ERASING AN UNLOCK SCHEDULE FOR THE MAIN GATE (STEP 41)

**Format** 41 + day of the week + segment + 99 + “#”

- The day of the week is one digit long:
  - 1 = Sunday
  - 2 = Monday
  - 3 = Tuesday
  - 4 = Wednesday
  - 5 = Thursday
  - 6 = Friday
  - 7 = Saturday
  - 8 = Holidays
- The segment is one digit long, either 1 or 2.

**Example** 41 + 2 + 1 + 99 + #  
(Erase the Monday Segment 1 Unlock Schedule for the Main Gate).

## C. SETTING AN UNLOCK SCHEDULE FOR THE AUXILIARY RELAY (STEP 42)

You can program the Crown Jewel to automatically unlock and relock the auxiliary relay.

**Format** 42 + day of the week + segment + opening time + closing time + holiday option + “#”

- The day of the week is one digit long:
  - 1 = Sunday
  - 2 = Monday
  - 3 = Tuesday
  - 4 = Wednesday
  - 5 = Thursday
  - 6 = Friday
  - 7 = Saturday
  - 8 = Holidays
- The segment is one digit long, either 1 or 2.
- The opening and closing times are four digits long, in 24-hour format.
- The holiday option is one digit long:
  - 0 = No schedule on holidays
  - 1 = Use same schedule on holidays
  - 2 = Use schedule number 8 when this day falls on a programmed holiday

**Example** 42 + 5 + 2 + 1130 + 2000 + 0 + #  
(sets segment 2 for the auxiliary relay to open at 11:30 AM and close at 8:00 PM on Thursdays, except when Holidays fall on Thursdays).

- NOTES**
1. To unlock the gate early on a scheduled day, use step 94 (Latch main gate).
  2. To close a gate early on a scheduled day, use step 96 (Release main gate).
  3. To extend the unlock period beyond the scheduled closing, use step 99 (Latch main gate until).

## D. ERASING AN UNLOCK SCHEDULE FOR THE AUXILIARY RELAY (STEP 42)

**Format** 42 + day of the week + segment + 99 + “#”

- The day of the week is one digit long:
  - 1 = Sunday
  - 2 = Monday
  - 3 = Tuesday
  - 4 = Wednesday
  - 5 = Thursday
  - 6 = Friday
  - 7 = Saturday
  - 8 = Holidays
- The segment is one digit long, either 1 or 2.

**Example** 42 + 2 + 1 + 99 + #  
(Erase the Monday Segment 1 Unlock Schedule for the Auxiliary Gate).

## E. ENABLING/DISABLING UNLOCK SCHEDULES (STEP 40)

You can temporarily disable or re-enable the Unlock Schedules.

**Factory Setting:** Ignore Unlock Schedules.

**Format** 40 + Unlock Schedule mode + “#”

- The Unlock Schedule mode is one digit long:
  - 0 = Ignore Unlock Schedules
  - 1 = Re-enable Unlock Schedules

**Example** 40 + 0 + #  
(Crown Jewel ignores Unlock Schedules).

## PART 8

# CALL FORWARDING

The Call Forwarding feature redirects visitor calls to an outside telephone number instead of ringing the house. The forwarding number is a regular phone number of up to 11 digits in length. You may also attach one of the following features to a forwarding number:

- an extension of an automated switchboard, or
- an extension (up to 6 digits) that the visitor can dial from the unit's keypad.

### A. SETTING THE CALL FORWARDING NUMBER (STEP 14)

Program the telephone number to which the Crown Jewel should forward calls. **NOTE:** to program an extension, see Section D.

**Format** 14 + telephone number + “#”

- The telephone number can be up to 11 digits long.

**Example** 14 + 5551212 + #  
(sets the Call Forwarding number to 555-1212).

**NOTE** During a Call Forwarding call, the visitor will hear normal telephone line sounds but will not hear the number being dialed.

### B. ENABLING/DISABLING CALL FORWARDING (STEP 13)

You can program the Crown Jewel to forward calls; to stop forwarding calls; or to forward calls according to the Scheduled Call Forwarding feature (see Section G).

**NOTE:** To use Call Forwarding or Scheduled Call Forwarding, you must program a call forwarding telephone number (see Section B).

**Factory Setting:** 0 (disabled).

**Format** 13 + Call Forwarding mode + “#”

- The Call Forwarding mode is one digit long:
  - 0 = Disable Call Forwarding
  - 1 = Enable Call Forwarding
  - 2 = Enable Scheduled Call Forwarding

**Example** 13 + 1 + #  
(enables the Call Forwarding feature)

### C. DELETING THE CALL FORWARDING NUMBER (STEP 14)

Delete the Call Forwarding telephone number.

**Format** 14 + 00 + “#”

**Example** 14 + 00 + #  
(deletes the Call Forwarding telephone number).

## D. SETTING THE CALL FORWARDING EXTENSION NUMBER (STEP 16)

Enter the extension to use in Call Forwarding.

**Format** 16 + extension number (up to 6 digits) + “#”

- The extension number may be up to 6 digits long.

**Example** 16 + 1234 + #  
(sets the extension number as 1234)

**NOTE** In order for the unit to dial an extension number, the Call Forwarding feature and the Forward Call Extension Delay feature must be activated (see Section A and Section E).

## E. SETTING THE CALL FORWARDING EXTENSION DELAY (STEP 15)

Program a pause between the Call Forwarding telephone number and the Call Forwarding extension.

**Factory Setting:** 0 (extension dialing disabled).

**Format** 15 + number of seconds + “#”

- The number of seconds may be up to two digits long, from 1 to 99 seconds.

**Example** 15 + 22 + #  
(enters a pause of 22 seconds between the Call Forwarding number and the Forward Call extension number)

## F. DISABLE THE CALL FORWARDING EXTENSION DELAY (STEP 15)

**Format** 15 + number of seconds + “#”

- Enter 0 seconds to disable Call Forwarding Extension Delay

**Example** 15 + 0 + #  
(Disables Call Forwarding Extension Delay)

**NOTE:** In order for the unit dial an extension number, the Call Forwarding and Call Forwarding Extension Delay features must be activated (see Section A and Section E above).

## G. MAXIMUM NUMBER OF VOICE MAIL DIGITS VISITOR MAY DIAL (STEP 17)

Program the maximum number of digits a visitor may enter on the unit’s keypad after the visitor call has been answered.

**Factory Setting:** 0 (disabled).

**Format** 17 + number of digits + “#”

- The number of digits must be one digit long; it can be between 0 and 6
- If the number of digits is 0, the visitor will not be able to enter any digits.

**Example** 17 + 6 + #  
(sets the maximum number of digits in the extension number to 6 digits).

## H. CALL FORWARDING SCHEDULE (STEP 18)

Program a calls to be forwarded during specific times on specific days.

**Format** 18 + day of the week + starting time + ending time + holiday option + "#".

- The day of the week is one digit long:
  - 1 = Sunday
  - 2 = Monday
  - 3 = Tuesday
  - 4 = Wednesday
  - 5 = Thursday
  - 6 = Friday
  - 7 = Saturday
  - 8 = Holidays
- The starting and ending times must be four digits long, in 24-hour format
- The holiday option is one digit long:
  - 0 = No schedule on holidays
  - 1 = Use same schedule on holidays
  - 2 = Use schedule number 8 when this day falls on a programmed holiday

**Example** 18 + 2 + 0900 + 1800 + 0 + #

(sets the Call Forwarding schedule for Mondays to forward all visitor calls between the hours of 9:00 AM and 6:00 PM).

# PART 9

## SECURITY FEATURES

### A. CHANGING THE UNIT PASSWORD (STEP 01)

**Factory Setting:** 000000

**Format** 01 + password + “#”

- The password must be 6 digits long.

**Example** 01 + 123456 + #  
(sets the password to 123456).

#### IMPORTANT NOTE

- After you have changed the password, be sure you verify the new password. See Section B (Step 02)
- If you typed the password incorrectly or you forget the password, you can reset the Crown Jewel to the factory defaults using programming step 31. See Part 11, Section B.

### B. VERIFYING THE UNIT PASSWORD (STEP 02)

Use this programming step to verify the new password you entered in step 01 (see Section A above).

**Format** 02 + password + “#”

- The password must be 6 digits long.
- If the unit responds with two beeps, the number that you entered matches the password you programmed in step 01.

**Example** 02 + 123456 + #  
(verifies that 123456 is the password).

#### IMPORTANT NOTE

- If the unit responds with an error tone, **do not exit programming**. The number that you entered does not match the password. Repeat steps 01 and 02 until you are certain that the password is what you want.
- If you typed the password incorrectly or you forget the password, you can reset the Crown Jewel to the factory defaults using programming step 31. See Part 11, Section B.

### C. ENABLING/DISABLING ALARM CALL (STEP 21)

Programs the unit to make an alarm call when alarm conditions occur.

**Factory Setting:** Disabled

**Format** 21 + alarm call mode + “#”

- The alarm call mode is one digit long:
  - 0 = Disables the alarm call feature
  - 1 = The unit will generate an alarm call upon a door breach
  - 2 = The unit will generate an alarm call upon a keypad “strike out”.
  - 3 = The unit will generate an alarm call upon a door breach or a keypad “strike out”.

**Example** 21 + 3 + #  
(sets the unit to generate an alarm call upon a door breach or a keypad “strike out”).

- NOTES**
1. If the alarm call feature is enabled, the destination of the call is determined by the telephone number programmed in step 22 (see Section D below).
  2. A door breach assumes that the status input is being used to monitor the closed position of the main gate.

## D. ALARM CALL NUMBER (STEP 22)

Program the telephone number to call in case of an alarm condition. When you pick up the phone, you will hear continuous hi-low tones, indicating an alarm condition.

**Format** 22 + alarm call telephone number + “#”

- The alarm call telephone number may be up to 11 digits long

**Example** 22 + 5551212 + #  
(sets the alarm call number to 555-1212).

**NOTE** The factory setting for the Alarm Call feature is disabled. To enable the alarm call feature, see step 21, Section C above.

## E. DELETE ALARM CALL NUMBER (STEP 22)

Delete the telephone number to call in case of an alarm condition.

**Format** 22 + 00 + “#”

- Enter “00” for the alarm call telephone number to have the Crown Jewel call the residence telephone.

**Example** 22 + 00 + #  
(sets the alarm call number to the residence telephone number).

## F. MAXIMUM NUMBER OF KEYPAD ERRORS (STEP 20)

You can program the maximum number of invalid entry codes that can be entered before the unit stops accepting codes from the keypad for 3 minutes.

**Factory Setting:** 5

**Format** 20 + number of keypad errors for keypad 1 + number of keypad errors for keypad 2 + “#”

- The number of keypad errors for keypads 1 and 2 is one digit long, from 0 to 9.  
0 = No limit to the number of keypad errors
- If you do not have a second keypad, press “#” after the number of keypad error for keypad 1.

**Examples** 20 + 3 + #  
(sets keypad 1 to stop accepting codes after 3 unsuccessful attempts)  
20 + 4 + 3 + #  
(sets keypad 1 to block after 4 unsuccessful attempts and keypad 2 to stop accepting codes after 3 unsuccessful attempts)

**NOTE** This feature can optionally trigger an alarm condition. Please refer to Section C Step 21 for more information regarding alarm conditions.

## G. ENABLING DIRECT COMMANDS (STEP 35)

You can program the Crown Jewel to accept commands directly from the residence telephones. You can send commands to open or close gates, etc.

**Factory Setting:** 1 (Enables the Crown Jewel to accept direct commands)

**Format** 35 + direct command digit (1 digit) + “#”

- The direction command mode is one digit long:  
0 = Disable Direct Commands feature  
1 = Enables Direct Commands feature from residence telephone only  
2 = Enables Direct Commands feature from a remote telephone only  
3 = Enables Direct Commands feature from residence or remote telephone

**Example** 35 + 1 + #  
(enables the use of direct commands from the residence telephone only)

**NOTE** For information regarding how to use the Direct Commands feature, see Part 13.

## PART 10

# IMMEDIATE CONTROL FUNCTIONS

You can use the following programming steps to program or perform certain functions from a remote telephone.

### A. DO NOT DISTURB UNTIL FEATURE (STEP 89)

You can program the Crown Jewel to block visitor calls, beginning immediately, until the time you program. Step 89 temporarily overrides the Do Not Disturb Schedule.

**Format** 89 + ending time + “#”

- The ending time must be 4 digits long, in 24-hour format.

**Example** 89 + 0715 + #  
(Block visitor calls until 7:15 AM.)

### B. CANCEL THE DO NOT DISTURB UNTIL FEATURE (STEP 89)

**Format** 89 + ending time + “#”

- Enter “99” for the ending time to cancel the Do Not Disturb Unit feature.

**Example** 89 + 99 + #  
(Cancel the Do Not Disturb Until feature)

### C. SPEAK THROUGH THE CROWN JEWEL MICROPHONE (STEP 90)

You can initiate communications from a telephone through the Crown Jewel’s speaker and microphone at any time to greet visitors, ward off vandals, etc.

**Format** 90 + “#”

- NOTE**
1. This call will terminate automatically in 60 seconds unless you hang up the line sooner.
  2. Extend the talk time by pressing “1” on your telephone.

### D. CYCLE MAIN GATE (STEP 91)

You can activate the main relay to momentarily open the door or gate without having a visitor initiate a call.

**Format** 91 + “#”

**NOTE** This step have no effect if the corresponding relay is already latched open or time latched.

### E. CYCLE AUXILIARY RELAY (STEP 92)

You can activate the auxiliary relay.

**Format** 92 + “#”

**NOTE** This step have no effect if the corresponding relay is already latched open or time latched.

## F. INITIATING SUSTAINED ACTIVATION OF MAIN RELAY (STEP 93)

You can activate the main relay for as long as you want. Use this step if you wanted to keep the door/gate open for an undetermined period of time.

**Format** 93 + “#”

- NOTES**
1. This step will temporarily override any existing unlock schedules.
  2. You may also use this step to unlock a gate prior to an unlock schedule. The gate will remain open until and through the unlock schedule for that day. When the unlock schedule ends, the gate will close as it would normally on that day.

## G. INITIATING SUSTAINED ACTIVATION OF AUXILIARY RELAY (STEP 94)

You can activate the auxiliary relay for as long as you want. Use this step if you want to keep the door/gate open for an undetermined period of time.

**Format** 94 + “#”

- NOTES**
1. This step will temporarily override any existing unlock schedules.
  2. You may also use this step to unlock a gate prior to an unlock schedule. The gate will remain open up until and through the unlock schedule for that day. When the unlock schedule ends, the gate will close as it would normally on that day.

## H. RELEASE MAIN GATE RELAY (STEP 95)

You can activate the main relay until released by another program step, a direct command, or an entry code with an unlatch relay code.

**Format** 95 + “#”

**NOTE** This step will temporarily override any existing unlock schedules.

## I. RELEASE AUXILIARY RELAY (STEP 96)

You can activate the auxiliary relay until released by another program step, a direct command, or an entry code with an unlatch relay code.

**Format** 96 + “#”

**NOTE** This step will temporarily override any existing unlock schedules.

## J. RELEASE BOTH RELAYS (STEP 97)

You can activate the auxiliary relay until released by another program step, a direct command, or an entry code with an unlatch relay code.

**Format** 97 + “#”

**NOTE** This step will temporarily override any existing unlock schedules.

## K. LATCH MAIN RELAY UNTIL SPECIFIED TIME (STEP 98)

You can activate the main relay until the time of day that you specify in this step.

**Format** 98 + ending time + “#”

- The ending time must be four digits long, in 24-hour format.

**Example** 98 + 1730 + #  
(latches main gate open until 5:30 PM).

**NOTE** This step will override any existing unlock schedules. You may use this step to temporarily extend an unlock period beyond the scheduled closing time. Enter an ending time after the scheduled closing time.

## L. LATCH AUXILIARY RELAY UNTIL SPECIFIED TIME (STEP 99)

You can activate the auxiliary relay until the time you specify in this step.

**Format** 99 + ending time + “#”

- The ending time must be four digits long, in 24-hour format.

**Example** 98 + 1730 + #  
(latches auxiliary door open until 5:30 PM).

**NOTE** This step will override any existing unlock schedules. You may use this step to temporarily extend an unlock period beyond the scheduled closing time. Enter an ending time after the scheduled closing time.

# PART 11

## OTHER FUNCTIONS

### A. SETTING ALTERNATE PREFIXES (STEP 36)

When you dial either “##” or “\*\*\*” on the resident phone, the Crown Jewel assumes that you want its attention for a Direct Command or programming and it disconnects from the telephone line to wait for your commands. Some telephone companies offer special features that require dialing a preceding “#” or “\* “. If you subscribe to such services and the Crown Jewel interferes with using them, you can program the Crown Jewel to accept different prefixes.

**Factory Setting:** 00 (Dial “##” for Direct Commands and “\*\*\*” to enter programming mode).

**Format** 36 + alternate prefix mode + “#”

- The alternate prefix mode must be 2 digits long:

00 = **normal**, the prefix for Direct Commands is “##”; the prefix for entering programming mode is “\*\*\*” followed by the 6-digit password.

01 = **mixed**, the prefix for the Direct Commands is a combination of the two keys (i.e., “#\* “ or “\*#”); the prefix for programming is a combination of three keys (i.e., “##\*” or “\*## “).

02 = **stars**, the Direct Commands prefix is “\*\*”; the prefix for programming is “\*\*\*”.

03 = **pounds**, the Direct Commands prefix is “##”; the prefix for programming is “###”.

04 = **none**, the resident will not be able to program from the house or use the Direct Commands.

1n = **num**, the Direct Commands prefix is “n#” ; the prefix for programming is “nn\*” where n is a number from 1 to 9 (see example below).

**Examples** 36 + 01 + #

(sets the Alternate Prefix feature to mixed “#”s and “\*”s).

36 + 15 + #

(sets the Direct Command prefix to 5# and the programming prefix to 55\* .

## B. RESTORING FACTORY SETTINGS (STEP 31)

To restore factory settings for programming steps 1, 6, 7, 8, 9, 10, 12, 13, 20, 21, 23, 24, 26, 29, 36, and 40.

**Format** 31 + 101010 + “#”

- The factory settings are listed on the chart located below.

**NOTE** When you initiate this step, the doors/relays that were latched (timed or untimed) before this step, will become unlatched. It is necessary for you to program the unit to latch these relays again using steps 91 through 99.

STEP	PURPOSE	FACTORY SETTING
01	Changing the Programming Access Code	000000
06	Setting the Visitor Double Ring	Enabled
07	Setting the Maximum Visitor Ring Count	12
08	Setting Talk Time	90 seconds
09	Enabling/Disabling Pulse Dial 9	Disabled
10	Enabling/Disabling Call Waiting	Disabled
12	Enabling/Disabling Do Not Disturb Schedule	Disabled
13	Enabling/Disabling Call Forwarding	Disabled
20	Maximum Number of Keypad Errors	5 for Keypad 1 5 for Keypad 2
21	Enabling/Disabling Alarm Call	Disabled
23	Setting the Main Gate Activation Time	10 seconds
24	Setting Auxiliary Relay Activation Time	10 seconds
26	Setting Auxiliary Relay and Status Configuration	Control relay, exit request 2
29	Rings Before Answer	5
34	Programming Visitor Response Keys	9 5 2 1 ★
36	Programming the Alternate Prefixes	Normal
40	Enabling/Disabling Unlock Schedules	Disabled

## C. ENABLING/DISABLING THE NO-TELCO MODE (STEP 33)

The Telco mode is invoked when the unit is using a telephone line. Enable No-Telco mode when the unit is not using a telephone line.

**Factory Setting:** 0 (disabled).

**Format** 33 + No-Telco mode (1 digit) + “#”

- The No-Telco mode is one digit long:
  - 0 = Enables **Telco** mode
  - 1 = Enables **No-Telco** mode

**Example** 33 + 1 + #  
(enables the No-Telco mode)

**NOTE** If No-Telco is enabled while a telephone line connected to the unit, the Crown Jewel ignores the telephone line. All Telco features like call forwarding and call waiting are disabled.

## D. RINGS BEFORE ANSWER (STEP 29)

Program the number of rings before the Crown Jewel automatically answers your telephone. This feature would be used for programming and relay activation from a remote telephone. This entry can be set from 1 to 15 rings.

**Factory Setting:** 5

**Format** 29 + number of rings + “#”

- The number of rings can be up to 2 digits long; it can be from 1 to 15.

**Example** 29 + 7 + #  
(sets the unit to answer after 7 rings).

**NOTE** **If you have an answering machine** attached to the same telephone line as the unit, make sure you set the Crown Jewel ring count to a large enough number so that it does not interfere with the operation of the answering machine. The Crown Jewel unit can be remotely programmed even if the answering machine answers the line first.

## E. OVERRIDING TELEPHONE COMPANY ANSWERING SERVICE (STEP 43)

You can override the answering service by dialing the line attached to your unit, letting the phone ring once or twice only, then hanging up. After a few seconds, dial the same number again. The Crown Jewel will answer the second call immediately, if it senses the incoming ring within the specified override delay time.

**Factory Setting:** 20

**Format** 43 + delay time in seconds + “#”

- The delay time in seconds may be no longer than 2 digits.

**Example** 43 + 15 + #  
(sets the unit to answer a second call within 15 seconds).

## F. RESETTING THE UNIT (STEP 32)

You can reset the unit without disconnecting the power.

**Format** 32 + “#”

**NOTE** Once you press the “#” key, the unit will beep once, reset the unit, exit out of the programming mode, and beep 4 times following the reset.

# PART 12

## MULTIPLE UNIT INSTALLATIONS

- ◆ You can install up to seven Crown Jewel units on a single telephone line.
- ◆ Each unit must have a unique number, from 1 to 7. The installing dealer will program the unit numbers.
- ◆ If you take a visitor call from one unit, you cannot send commands to a different unit during the call. You must hang up, call the unit, and send commands
- ◆ Visitor calls can only be taken one at a time. For example, if you take a visitor call from the main gate (unit 1), and another visitor tries to call from the rear gate (unit 2), you will not be notified until you hang up the original call. However, if you are making a regular phone call, the call waiting feature will operate normally.

### A. PROGRAMMING MULTIPLE UNITS

When you program instructions from the residence telephone or a remote telephone, you must include the unit ID code when you enter programming mode. **NOTE:** Programming from the keypad at the unit does not require the entry of the unit ID code.

#### From the Residence Telephone

1. When you hear the dial tone, press the asterisk key three times (“\*\*\*”).
2. Enter the unit ID code.
3. Enter the six digit password. The unit will emit a high-pitched tone.
4. Press the pound key (“#”). The tone will stop.
5. The Crown Jewel is now ready to accept programming instructions.

#### From a Remote Telephone

1. Dial the residence telephone number.
2. When the Crown Jewel picks up the call, press the asterisk key three times (“\*\*\*”).
3. Enter the unit ID code.
4. Enter the six digit password. The unit will emit a high-pitched tone.
5. Press the pound key (“#”). The tone will stop.
6. The Crown Jewel is now ready to accept programming instructions.

**Example:**     \*\*\* + 3 + 030303  
                  (enter programming mode for unit 3 using password “030303”)

### B. SETTING THE UNIT NUMBER (STEP 38)

#### IMPORTANT NOTE

Do not use this programming step unless you have been instructed to do so by the installing dealer, or Sentex Customer Support.

If you add or remove units, you will need to reprogram each unit's ID code. You must program the unit ID code at the unit keypad. You must program every unit in the chain. When you are done, verify the each unit's ID code using programming step 37 (see Section C below).

**Format**     38 + number of this unit + total number of units + “#”

- The number of the unit is one digit long, from 1 to 7.
- The total number of units is one digit long, from 2 to 7.

**Example**     38 + 2 + 4 + #  
                  (sets this unit as unit 2 in a series of 4 units).

## C. VERIFY UNIT NUMBER (STEP 37)

Use this programming step to verify each unit's ID code, in a multiple unit chain.

**Format**        37 + “#”

The unit will respond with the number of beeps corresponding to its unit number.

**Example**        Unit 1 will respond with one beep; unit 2 will respond with two beeps; unit 3 will respond with 3 beeps, etc.

# PART 13

## DIRECT COMMANDS FROM THE RESIDENCE PHONE

You can send commands directly to the Crown Jewel from the residence telephone.

- NOTES:**
1. Once you have performed a Direct Command from the residence telephone, you must hang-up the phone before being able to perform another command.
  2. If you have a multiple unit installation, you must enter the unit ID code.
  3. To disable the Direct Commands feature, see Part 9, Section G above.

### A. DIRECT COMMAND BASICS

When you enter Direct Commands from the residence telephone, you begin with a code that tells the unit you will be entering Direct Commands. **NOTE:** Programming from the keypad at the unit does not require the entry of the unit ID code.

1. Signal the Crown Jewel that you want to enter direct commands. **From the residence telephone:** when you hear the dial tone, press the pound key twice (“##”), the unit ID code (if applicable), then the six digit password.
2. The Crown Jewel is now ready to accept programming instructions.

**Examples:**   ## + 123456  
                  (enter direct command mode)  
                  ## + 3 + 030303  
                  (enter direct command mode for unit three)

### B. DO NOT DISTURB UNTIL (STEP 89)

You can activate the Do Not Disturb Until feature using a Direct Command.

**Format**       ##89 + ending time + #

- The ending time must be 4 digits long, in 24-hour format.

**Example**     ##89 + 1330 + #  
                  (sets the Do Not Disturb Until feature until 1:30 PM)

### C. CANCEL DO NOT DISTURB UNTIL (STEP 89)

Use this Direct Command to cancel the Do Not Disturb Until feature.

**Format**       ##89 + 99 + #

- The ending time “99” cancels the Do Not Disture Until command.

### D. INITIATING AUDIO COMMUNICATION THROUGH THE CROWN JEWEL (STEP 90)

Use this Direct Command to communicate through the Crown Jewel without receiving a visitor call.

**Format**       ## + 90 + #

- After the call is initiated, you have the following choice of actions:
  - 1 Extends call time
  - 9 Activates Relay 1 at drop call
  - 5 Activates Relay 2 at drop call
  - ★ Ends call

## E. CYCLE MAIN GATE (STEP 91)

Use this Direct Command to cycle the main gate, without first receiving a visitor call.

**Format**      ## + 91 + #

## F. CYCLE AUXILIARY RELAY(STEP 92)

Use this Direct Command to cycle the auxiliary relay, without first receiving a visitor call. For example, you could turn on a closed circuit TV or security light.

**Format**      ## + 92 + #

## G. ACTIVATE MAIN RELAY (STEP 93)

Use this Direct Command to activate the main relay (open the main gate) until you release it.

**Format**      ## + 93 + #

**NOTE:**      To deactivate the main relay (close the gate), see Section I step 95 or Section K step 97 below.

## H. ACTIVATE AUXILIARY RELAY (STEP 94)

Use this Direct Command to activate the auxiliary relay until you release it.

**Format**      ## + 94 + #

**NOTE:**      To deactivate the auxiliary relay, see Section J step 96 or Section K step 97 below.

## I. DEACTIVATING MAIN RELAY (STEP 95)

Use this Direction Command to deactivate the main relay (close the main gate).

**Format**      ## + 95 + #

**NOTE:**      This step will temporarily override any existing unlock schedules.

## J. DEACTIVATING AUXILIARY RELAY (STEP 96)

Use this Direction Command to deactivate the auxiliary relay.

**Format**      ## + 96 + #

**NOTE:**      This step will temporarily override any existing unlock schedules.

## K. DEACTIVATING BOTH RELAYS (STEP 97)

Use this Direction Command to deactivate the auxiliary relay.

**Format**      ## + 97 + #

**NOTE:**      This step will temporarily override any existing unlock schedules.

## L. ACTIVATING MAIN RELAY UNTIL SPECIFIED TIME (STEP 98)

Use this Direct Command to activate the main relay (open the main gate) until a specified time.

**Format**        ## + 98 + ending time + #

- Ending time must be four digits long, in 24-hour format.

**Example**        ## + 98 + 1730 + #  
(Opens the main gate until 5:30 pm)

**NOTE:**        This step will temporarily override any existing unlock schedules.

## M. ACTIVATING AUXILIARY RELAY UNTIL SPECIFIED TIME (STEP 99)

Use this Direct Command to activate the auxiliary relay until a specified time.

**Format**        ## + 99 + ending time + #

- Ending time must be four digits long, in 24-hour format.

**Example**        ## + 99 + 2000 + #  
(Activates the auxiliary relay until 10:00 pm)

**NOTE:**        This step will temporarily override any existing unlock schedules.

## N. USING THE IN-HOUSE PAGING FEATURE

You can send the Crown Jewel a Direct Command that will cause all the telephones connected to the unit's phone line to give a distinctive ring. For example, you can use this command to page someone else in the residence. The Crown Jewel can cause a single, double, triple or quadruple ring.

**Format**        ## + 0 + ring digit + # then hang up the phone

- The ring digit is 1 digit long, between 1 and 4:

1 = single ring

2 = double ring

3 = triple ring

4 = quadruple ring

**Example**        ## + 0 + 3 + # then hang up the phone  
(after you hang up, all the extensions on the Crown Jewel's phone line will give a triple ring.)

# APPENDIX A

## THE PROGRAMMING MENU

STEP	PURPOSE	DIGITS	ACCEPTABLE INPUT
00	Exiting Programming Mode		
01	Changing the Unit Password	6	
02	Verifying the Unit Password	6	
03	Creating an Entry Code	4, 5, or 6	4-digit entry code + relay code+time zone
04	Erasing an Entry Code	4	4-digit entry code
05	Erasing all Entry Codes	6	all code erasing sequence (101010)
06	Setting the Visitor Call Double Ring	1	1=single ring, 2=double ring
07	Setting the Maximum Visitor Call Ring Count	up to 2	1 through 24 rings
08	Setting talk time	up to 3	15 to 250 seconds
09	Enabling/disabling Pulse Dial 9	1	0=disable, 1=enable
10	Enabling/disabling Call Waiting	1	0=disable, 1=enable
11	Setting the Do Not Disturb Schedule	3 or 10	day of the week + starting time + ending time + holiday option, 99=erases
12	Enabling/disabling Do Not Disturb Schedule	1	0=disable, 1=enable
13	Enabling/disabling Call Forwarding	1	0=disable, 1=enable, 2=schedule
14	Setting the Call Forwarding Number	up to 11	0 through 9, 00=disables the number
15	Setting the Call Forwarding Extension Delay	up to 2	0 through 30 seconds
16	Setting the Call Forwarding Extension Number	up to 6	00=disables the number
17	Setting the Maximum Number of Digits in the Call Forwarding Extension Number	1	0 through 6
18	Setting the Call Forwarding Schedule	3 or 10	day of the week + starting time + ending time + holiday option, 99=erases
19	Setting the Visitor Call to Guest Houses, etc...	up to 12	code number + telephone number, 00=erases a code
20	Setting the Maximum Number of Keypad Errors	2	keypad 1 errors + keypad 2 errors
21	Enabling/Disabling Alarm Call	1	0=disable, 1=gate breach only, 2=keypad strikeout, 3=both
22	Setting the Alarm Call Number	up to 11	00=disables the number
23	Setting Main Gate time	up to 3	1 through 250 seconds
24	Setting Auxiliary Relay Time	up to 3	1 through 250 seconds
25	Entering a Time Zone Segment	4 or 11-18	time zone number + segment number + starting time + ending time + days of the week, 99=erases time zone
26	Setting Auxiliary Relay and Status Configuration	1	0=Control (with exit request), 1=Shunt, 2=Alarm, 3=CCTV (manual), 4=CCTV (instant), 5=Control (with position sense)

<b>STEP</b>	<b>PURPOSE</b>	<b>DIGITS</b>	<b>ACCEPTABLE INPUT</b>
27	Setting the Date and Time	11	year + month + day + day of the week + hour + minute
28	Setting Holidays	5	holiday number + month + day
29	Setting the Rings Before Answer	up to 2	1 through 15 rings
30	Adjusting the Sidetone Balance		generate 45 second tone
31	Restoring Factory Defaults		
32	Resetting the Unit		
33	Enabling/disabling the No-Telco Mode	1	0=disable, 1=enable
34	Changing the Visitor Call Response Keys	4 or 5	1 through 9
35	Enabling Direct Commands	1	0=disable, 1=local, 2=remote, 3=both
36	Setting Alternative Prefixes	2	00=normal,01=mixed,02=stars, 03=pounds,04=none,1n=num (n# or nn*) where n=1-9.
37	Beep Unit Number		
38	Setting the Unit Number	2	this unit number + total number of units
40	Enabling/disabling Unlock Schedules	1	0=disable, 1=enable
41	Setting the Main Gate Unlock Schedule	up to 11	day of the week + segment number + starting time + ending time + holiday option, 99=erases
42	Setting the Auxiliary Relay Unlock Schedule	up to 11	day of the week + segment number + starting time + ending time + holiday option, 99=erases
43	Overriding Telephone Company Answering Service	2	43 + delay time in seconds + #
89	Activating the Do Not Disturb Until Feature	4	ending time
90	Initiating Audio Communication through the Crown Jewel		
91	Cycling the Main Gate		
92	Cycling the Auxiliary Relay		
93	Latching the Main Gate		
94	Latching the Auxiliary Relay		
95	Releasing the Main Gate		
96	Releasing the Auxiliary Relay		
97	Releasing Both Relays		
98	Latching the Main Gate Until XXXX	4	ending time
99	Latching the Auxiliary Relay Until XXXX	4	ending time