17 KEYSTATION OPERATION

Keystations are used to control the system functions, and contain the system status lights and built-in speaker for audible indications.

17.1 KEYSTATION LEDs

ZONE LEDs -   LED OFF denotes a normal condition.
LED ON indicates a NOT READY zone.
LED FLASHING
--Indicates a BYPASSED zone if the (BYPASS) key has been pressed.
--Shows that a zone was/is in alarm if the (ALARM MEM) key has been pressed.

READY LED -   LED OFF indicates that the system is armed or one or more zones are
    NOT READY to be armed.
LED ON shows that the system is disarmed and all zones are either
    good or BYPASSED.
LED FLASHING means that the system is reporting.

ARMED LED -   LED OFF indicates that the controlled zones (i.e, NOT the 24-hour zones) are disarmed.
LED ON means the controlled zones are armed.
LED FLASHING indicates that the system was or still is in alarm.

CHIME/INTERIOR LED - Toggled by (CHIME/INTER) key.

     SYSTEM ARMED -   LED OFF shows that the Interior zones are disabled.
         LED ON means the Interior zones are enabled.

     SYSTEM DISARMED - LED OFF indicates that the Door Chime feature is disabled.
         LED ON shows that the Door Chime feature is enabled. An open or closed sensor in a
         perimeter zone programmed to chime will cause a chime at the keystation.

NO DELAY LED -   LED OFF shows that time-delayed entries and exits are in effect.
LED ON indicates that zones that were initially programmed for time delayed entries and exits will
activate alarms instantly.

BYPASS LED -   LED OFF means that every zone will activate an alarm if violated.
LED ON indicates that one or more zones have been bypassed, and will **not** activate an alarm if
violated.

CODE 2 LED   LED OFF shows that codes 2, 3, 4 and 5 cannot be used.
LED ON means that the CODE 2 CONTROL option has been selected and the (CODE 2) key has
been pressed, enabling codes 2, 3, 4 and 5 to arm and disarm the system.

PROGRAM LED   LED ON means that a new access code is being programmed (see section 16.4.2).
LED FLASHING indicates that the PROGRAMMING mode has been entered from the keystation,
and the first programming step number has not yet been keyed in (see section 16.4.1).

POWER LED -   LED OFF indicates that the AC power has been removed and the battery is providing standby
power. (The LED goes off approximately 60 seconds after the power loss is detected.)

     NOTE: *The power loss will be reported to the central station after the programmed number of*
         LOW AC HOURS have passed (see section 15.2.2).

     LED ON shows that sufficient AC power is being supplied to the system.
LED FLASHING means the battery is low.

EMERGENCY LED - LED ON indicates that an emergency alarm has been activated.

FIRE LED -   LED ON shows that the fire alarm has been activated.
LED FLASHING indicates that a trouble condition in the fire zone has been silenced.
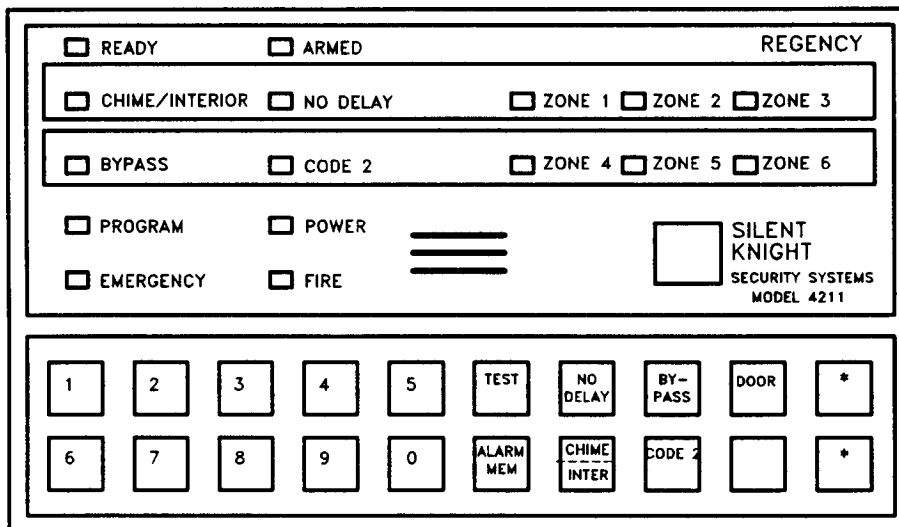
FIGURE 17A: MODEL 4211 KEYSTATION

17.2 BUILT-IN SPEAKER

The keystation's built-in speaker gives audible indications of alarms and troubles, and entry/exit warning tones. The speaker is also used for the optional Intercom feature (see section 12). The audible indications are described below:

FIRE ALARM - A high-volume, high-pitch intermittent tone. A fire will cause the speaker to sound a one-second beep every 10 seconds.

EMERGENCY ALARM - A high-volume, intermittent tone.

INTRUSION ALARM - A high-volume, alternating high/low pitch constant tone.

FIRE TROUBLE CONDITION - A low-volume, high-pitch tone that sounds for one second every 10 seconds.

ENTRY TONE - One beep every 2 seconds during the delay time.

DOOR CHIME - Low volume, high-to-low pitch tone similar to a doorbell. Sounds once each time a Perimeter zone sensor is opened or closed.

17.3 KEYSWITCHES

(TEST) - Used to test the dialer, enter and exit the REPROGRAM and WALK TEST Modes and enter the DIAL UP FOR DOWNLOAD Mode.

(NO DELAY) - Toggles between INSTANT and DELAYED status for zones that have been programmed for exit and entry delay.

(BYPASS) - Used to bypass (shunt) and unbypass zones and display zones that have already been bypassed.

(FIRE) - (4210 and 4212) Generates a Fire alarm when held down for at least 1 second.

(EMER) - (4210 and 4212) Generates a Medical Emergency alarm when held down for at least 1 second.

(POLICE) - (4210 and 4212) Activates a Panic alarm when held down for at least 1 second.

⊛ ⊛ - (4211 only) Activates a Panic alarm when held down for at least 1 second.

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⊞ -	(4210 and 4212) On the 4212, used with the Model 7368 Intercom/Two-Way Audio Module to talk and listen to someone at the Model 7381 Front Door Intercom Station. (Press to talk, release to listen.) On the 4210, the ⊞ key is nonfunctional.

NOTE: The Model 2750 is not UL Listed for commercial applications.

(ALARM MEM) -	Displays zones that were in alarm since the last arming. In the WALK TEST Mode, displays zones that were tested.
(CHIME/INTER) -	When system is ARMED, toggles the door chime on and off. **This key will not work if the option to DISABLE THE CHIME/INTERIOR SWITCH WHEN ARMED has been selected in programming.** When the system is DISARMED, this key enables and disables the interior zones.
(CODE 2) -	(4210 and 4212) Allows access codes 2-5 to be used to arm and disarm the system, if the CODE 2 CONTROL option has been selected during programming (see section 15.1.2.18).
(DOOR) -	(4211 only) Controls the activation of the 2 relays on the Model 2713 Keyswitch/Relay Module (see section 15.1.5).

17.4 KEYSTATION TEST FUNCTIONS

The various test modes are described below. Test modes can only be accessed when the system is disarmed. To access a TEST Mode, press the digit assigned to it (see table 17.4 - I below), then the (TEST) key, followed by code 0 or code 1. The system will always power up in the SET TIME Mode.

To return to the NORMAL OPERATING mode from a test mode, press the (MUTE) key twice.

TABLE 17.4 - I: TEST MODES

TEST MODE	PRESS DIGIT	PRESS KEY	ENTER CODE
DIALER TEST	①	(TEST)	####
WALK TEST	②	(TEST)	####
DIALER RESET	③	(TEST)	####
REQUEST DOWNLOAD	④	(TEST)	####
NOT USED	⑤	—	—
CONTROL PROGRAMMING	⑥	(TEST)	#### (CODE 0 ONLY

DIALER TEST

When the DIALER TEST mode is accessed, the 2750 will send a "Dialer Test" to the central station receiver. To activate a Dialer Test, press digit ①, then the (TEST) key, followed by a valid **access code** that can be used to arm the system.

WALK TEST

The WALK TEST mode disables alarm reporting, allowing the installer to test all of the zones. A 2-second alarm will be sounded with each zone violation.

Each violation will be stored by the 2750 and can be viewed at the keystation by pressing the (ALARM MEM) key.

WARNING: During a WALK TEST, the system will NOT respond to real fire alarms.

DIALER RESET

The dialer will abort any calls in progress.

REQUEST DOWNLOAD

This mode causes the dialer to request downloading from a computer installed with Model 5540/41 Downloading Software.

CONTROL PROGRAMMING

The CONTROL PROGRAMMING mode is available only to the maintenance code (code 0). Control options may be changed using this mode (see section 16.4). Dialer options can only be programmed/changed using a Silent Knight Model 5520/21 programmer or by downloading.

18 SYSTEM OPERATION

System operating instructions that are not covered elsewhere in this manual are briefly described in the following paragraphs. A detailed description of system operation is found in the 2750 operation manual (P/N 150533).

1. *When **power** is applied*, the 2750 will:

   a. Request EEPROM data from the Dialer.

   b. Program itself with the EEPROM data.

   c. Automatically bypass any intrusion zones that are NOT READY (e.g., a door that has been left open).

   d. Arm the system.

   e. Report any zones that were bypassed.

2. To Arm the System - Enter your **access code**.

3. To Disarm the System - Enter your **access code**.

4. To Bypass or Unbypass a Zone - Press the **zone number** you wish to bypass/unbypass. Press the (BYPASS) key. The **ZONE** LED will blink for approximately 2 seconds.

   To see which zones are bypassed at any time, press (BYPASS). The bypassed zones will blink for 2 seconds.

5. To Silence a Fire Trouble - Enter your **access code**. Once the trouble condition has been corrected, the appropriate **ZONE** LED and **TROUBLE SILENT** LED will turn off.

6. To Manually Activate Fire, Emergency or Police Alarm - Press the (FIRE) or (EMER) key and hold it down for 1 FULL SECOND.

   NOTE: The system must be disarmed to test.

7. To Activate Duress when Disarming - Press the (0) key. Enter your **access code**.

8. To Enter PROGRAM Mode - Press (6) (TEST)

9. To Test the Communicator - Press (1) (TEST) followed by an access code. The dialer will call the central station and report the test code (see the tables in section 14) followed by the user code. When the dialer begins dialing, the **READY** LED will start flashing, then stop when the call is complete.

10. To Perform a Walk Test - Press (2) (TEST) followed by an **access code**. The **CHIME/INTERIOR** LED will start to flash. While in the WALK TEST Mode, tripping any zone will cause the chime tone to sound and will turn on the appropriate **ZONE** LED. Alarms will not be sent to the dialer. To view the zones that have been tested, press the (ALARM MEM) key. To exit the WALK TEST Mode, press (TEST)

19 TRANSIENT VOLTAGE PROTECTION

19.1 TYPES OF PROTECTION

The Model 2750 Control Panel is protected from transient voltage damage due to lightning or static electricity in three ways.

1. Metal-oxide varistors between each input/output and earth ground.

2. Fast acting zener diode protection between each zone input and earth ground.

3. Circuit board layout that isolates vulnerable components from known transient sources.