

SILENT KNIGHT
MODEL 4720
PROGRAMMING OPTIONS
DESCRIPTIONS
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1 INTRODUCTION

This manual explains the programming options available when using the Model 5520 programmer. The underlined titles at the beginning of each paragraph will appear on the top line of the programmer display. Refer to the 5520 operation manual for instructions on operating the 5520 programmer.

It should be noted that this manual shows ALL of the available options. However; some options will determine whether or not another option is available.

EXAMPLE: If you select NO for the AUTO TEST option, the DAILY TEST, TEST DAY, and TEST TIME options will not appear on the LCD display.

NOTE: Five keystations are being replaced by newer models. The Model 4200 is being replaced by the Model 4203, the Model 4430 by the Model 4433, the Model 4530 by the Model 4533, the Model 4550 by the Model 4553, and the Model 4560 by the Model 4563. Models 4220, 4230 and 4540 have been discontinued. (Models 4200 and 4203 are not recognized by Underwriters Laboratories.)

On the new keystations, the <SHUNT> key has been renamed the <BYPASS> key and the <NOT READY> key has been renamed the <STATUS> key. Throughout this manual, the old key name or model number will be shown in parentheses after the new name or model number.

2 SYSTEM OPTS. (system options)

DEFAULT MODE

This option is used to select what the system will do when it times out of the PROGRAM Mode. This would occur after a prolonged power loss, if no one is present to control the system. The choices are displayed on the second line of the display. Choose one of the options by pressing the arrow keys.

1. DISARM - When this option is selected the unit will default to the DISARMED Mode and **will not** generate an "OPEN" report to the central station.
2. OPEN - When this option is selected the unit will default to the DISARMED Mode and generate an "OPEN" report.
3. FORCE CLOSE - When this option is selected the unit will default to the ARMED Mode and will automatically "BYPASS" ("SHUNT") any zones that are not ready to be armed. The unit will also generate a "CLOSE" report.
4. CLOSE - When this option is selected the unit will default to the ARMED Mode. If any zones are not ready to be armed, they will go into the Alarm condition and the appropriate report will be sent to the central station. If all of the zones are READY, only a "CLOSE" report will be generated.

NOTE: For the following options, enter a "Y" to select an option or an "N" Not to select an option.

DNLD IF DEFAULT

When this option is selected the 4720 will request downloading information whenever the system enters its DEFAULT Mode.

To be useful, the download computer must be on-line full time.

EXAMPLE: All power is lost at the panel (AC and DC). When the power is restored, the panel will enter the SET TIME Mode. After 4 minutes, the panel will enter its DEFAULT Mode if no action is taken by the user. At this time the 4720 will contact the computer for downloading instructions.

BELL TEST @ PUC (Bell Test at Power Up Clear)

When selected, the 4720 will sound a 2-second Bell Test whenever the system is reset.

DIALER

The Dialer must always be selected for normal operation. It can be disabled for troubleshooting, or while training end users.

PRINTER

Select this option if you are using a Model 5255 On-Site Printer.

ZONE EXP1

If any Zone Expander is to be used with the system, this option must be selected.

ZONE EXP2

If two Zone Expanders are to be used with the system, both ZONE EXP 1 and ZONE EXP 2 must be selected.

INTERCOM

Select this option if you are using the Model 4553 (4550) Keystation and the Model 4140 Intercom/Speakerphone.

AUX CONTROL

Select this option if you are using the Model 4150 Auxiliary Control Module.

4203 (4200) OR MK

This option must be selected if you are using the Model 4203 (4200) keystation, or a Mechanical key. Using these keystations prevents the use of Zones 13 through 16.

SYSTEM TYPE

Choose either "RESIDENTIAL" or "COMMERCIAL" depending on the type of installation. Residential systems may not use the Door Access feature and Commercial systems may not use the Code 2 feature.

INSTANT IF INTRU or INSTANT IF ALARM (depending on software revision)

When this option is selected, all zones become Interior zones whenever any Alarm occurs. This option does not apply to expansion zones.

FORCE ARM

When this option is selected, it causes any zones that are NOT READY to be Bypassed (Shunted) when the system is armed. Upon arming, the 4720 will generate a "CF" (Forced Closing) report.

INT ON @ INTRU

With this option selected, all Interior zones will automatically be enabled when there is an Intrusion Alarm.

INT FOLLOWERS

Selecting this option causes the Interior zones to Delay when an Entry zone is violated. This option does not apply to expansion zones.

ARM LOCK INT KEY

When this option is selected it will disable the <INTERIOR> touch switch whenever the system is armed (after the exit delay).

INT OFF @ DISARM

When selected, this option will automatically disable the Interior zones when the system is disarmed.

AUTO INTERIOR

When selected, this option will automatically enable the Interior zones when the system is armed. The system will not arm unless the Interior zones are ready. If the interior is subsequently turned off by the user, a Forced Close report will be generated.

EXIT BEEPS

When selected you will be given an audible exit warning tone.

SILNT NIGHT TRBL

Audible Trouble tones will not be sounded while the panel is armed.

KEY BEEP SPKR

If you are using a keystation without a PZT beeper, you have the option to send the "BEEPS" from the keypad to the internal speakers by enabling this option; however, they will sound at all internal speakers.

E/E BEEP PZT

If you wish to have the Entry/Exit tones also sounded on the PZT beeper, select this option. (Tones are always audible on internal speakers.)

SWINGER BYPASS (SHUNT)

If you select this option, the 4720 will automatically Bypass (Shunt) zones that cause repeated (4 times) Alarms within a specified time window.

DELAYED BYPASS (SHUNT)

When this option is selected the 4720 will not report bypasses (shunts) to the central station until the panel is armed.

AUTO UNBYPASS (UNSHUNT)

This option will automatically Unbypass (Unshunt) the bypassed (shunted) zones when the panel is disarmed.

NOTE: This option should be selected if the Force Arm option was selected.

BYPASS (SHUNT) CODE

When this option is enabled you must enter your access code to Unbypass (Unshunt) a zone even if the panel is disarmed.

ACCESS WINDOWS

Select this option if you will be using Access Windows. The Access Windows restrict all functions which require an Access Code to certain time windows. If "NO" is selected the programmer will skip the Normal Window and Special Window programming.

REPORT DO/DF

If this option is selected the 4720 will send a report every time the door sensor is violated. It will report if the door was Forced open or Left open.

REP ALL OP/CL

This option would be selected if you wish the 4720 to send Opening and Closing reports for every type of opening and closing.

NOTE: You must also select this option if you want Bell ringback at closing, or if you want remote armed interrogation using the Answer Ring Detect option.

REP EXCPTN OP/CL

If this option is selected the 4720 will not report Openings and Closings during specified window times.

REPORT OT/CT

When this option is selected the 4720 will send an Open Trouble or Close Trouble report to the central station if you fail to Arm or Disarm during a specified time window.

REPORT DG

When this option is selected the 4720 will send a report indicating that the door was accessed using a valid code number (Door Access Granted).

HIGH SECURITY

When this option is selected, 2 access codes are required to activate the door strikes. The first code is common to all users and the second code is unique to each user.

MILITARY TIME

If selected, the Time display will be in military time. If not selected, the Time will be displayed in AM and PM.

MAX SKEY ID

For this option you must enter the highest keystation ID number that will be supervised. You must give your supervised keystations ID numbers in sequential order starting at 1. Select "0" for this option if you do not want keypad supervision.

NOTE: Keypad supervision will only work with 4-wire or PLC keystations. Stations with higher ID numbers will still function but will not be supervised.

DISPLAY RATE

You are given four choices for the amount of time that the display will show specific information before it will move to the next display. The four choices are: .5 seconds, 1 second, 1.5 seconds, and 2 seconds. Use the arrow keys to select. (The recommended speed is 1.5 seconds.)

SPLIT BYPASSING (SHUNTING)

Selecting this option allows Codes 0 and 1 to bypass (shunt) all zones. Codes 2 through 80 can only bypass their corresponding zone (Code 2 can bypass only Zone 2, Code 3 can only bypass Zone 3, etc.). Codes 81 through 99 cannot bypass any zones.

CHIME PZT

When selected, this option will send the chime tone to all of the PZT's and speakers in the keystations. (The chime feature will go to speakers even if this option is not selected.)

RINGBACK AT CLOSE

When this option is selected there will be a short bell test after kiss-off when a Closing report is sent.

AUTO OPEN

If selected, the 4720 will automatically Disarm itself if the panel is not disarmed at the end of the programmed opening time window.

CAUTION: The 4720 will Auto Open even on holidays.

FAST RESTORES

Selecting this option allows the 4720 to report restores as soon as the Alarm has been reported instead of waiting for the shutdown time.

DURESS

Enabling this option allows the use of the Duress feature of the 4720.

BELL TEST @ ARM

Enabling this option causes a 2-second Bell Test every time the system is armed.

AUX CODE

If selected, you will always need to use your access code when toggling an Auxiliary Control (4150) Relay.

AUTO CLOSE

If selected, the 4720 will automatically arm itself if the panel is not armed at the end of the programmed closing time window.

HOURLY TEST

If selected, the 4720 will generate a Dialer Test once every hour as long as the panel is Armed.

3 INTERNAL ZONES

All options in this category refer to Zones 1 through 16 only. Expanded zones are covered in the next section.

ZONING MODE

If you are using a Model 4720 control panel, Select STANDARD for this option. AREA MODE is for use with the Model 4721 control software ONLY. Select AREA MODE only if you are using the 4721.

OF AREAS (For use with the 4721 only)

Select the number of areas (1-8) that you will be using on the 4721.

LAST INTERNAL Z.

In this step, enter the zone number of the Last internal zone. This will let the system know where to start the Expansion zones.

NOTE: If you will not be using all 16 internal zones, you must not select the unused zones for supervision or N.C. contact.

In the following steps, press <1>-<9> and <A>-<G> to toggle the options for each zone. The letters A-G correspond to Zones 10-16. The arrow keys can be used to turn all zones ON or OFF. A dash indicates that the option is NOT selected for that zone.

DAY TROUBLE

Select zones that are to be supervised only while the panel is disarmed. Day trouble loop response is always .062 seconds. Day troubles will not restore until silenced from a keystation. These zones should also have N.C. contact selected. Typical Day Trouble zones are window foils or emergency exits.

24HR TROUBLE

Select zones that will be supervised 24 hours a day such as Fire Zones (all supervised zones require a 15-KΩ EOL). 24HR trouble loop response is always 10 seconds. 24HR troubles will restore as soon as the loop is restored.

N.C. CONTACT

Select each zone that will be using Normally Closed contacts (all N.C. zones require a 15-KΩ EOL). DO NOT select 24HR trouble and N.C. contact for the same zone.

N.O. CONTACT

Select each zone that will be using Normally Open contacts.

NOTE: In UL installations, this option must be selected for all burglary zones, whether they use Normally Open or Normally Closed contacts. This allows short circuits in the loop to be detected.

SPEED 2 OR 4

LOOP RESPONSE

- 1 = .010 seconds
- 2 = .062 seconds
- 3 = 1 second
- 4 = 10 seconds

Both this step and the following step are used to select the loop response speed of zones 1-16 (internal zones of the 4720). Do NOT enter the zone number of any zones that will be using a speed of .010 seconds.

Select each zone that will have a loop response speed of .062 seconds or 10 seconds.

SPEED 3 OR 4

Select each zone that will have a loop response speed of 1 second or 10 seconds.

NOTE: Zones that will use a loop response speed of 10 seconds must be entered in both this step and the previous step.

24HR ALARM

Select zones that will be monitored for Alarm conditions 24 hours a day (Fire, Medical, Tamper etc.)

EXIT DELAY

Select each zone that will have an Exit Delay time. Also select any Interior zones that are in the exit corridor.

ENTRY DELAY 1

The 4720 has the capability of having two separate Entry Delay times. Select each zone that would be controlled by Entry Delay 1.

NOTE: Delay 1 will also be used by expansion zones.

ENTRY DELAY 2

Select each zone that would be controlled by Entry Delay 2.

INTERIOR

Select each zone that will be an Interior zone. These zones can be bypassed (shunted) as a group using the interior key.

BYPASSABLE (SHUNTABLE)

Select each zone that you may want to Bypass (Shunt). If a zone is not selected, you will not be able to Bypass (Shunt) that zone.

NOTE: Fire zones SHOULD NOT be bypassable (shunable).

CHIME

Select each zone that will be able to use the Chime function.

4 EXPANSION ZONES

All options in this category refer to the Expansion zones. When programming the expansion zones, there are a few items to remember:

1. The expansion zones do not have all of the features of the internal zones.
2. When entering zone numbers, the second line of the display will show "1X:" for Zones 17 through 19, "2X:" for Zones 20 through 29, etc. Enter the last digit of each zone that you wish to program.
3. When using two zone expanders, the contact ID's overlap; therefore, you must skip the number of sensors used on the first expander when installing the second expander.

EXAMPLE: To elect Zones 25 and 26, press the digits <5> and <6> when Line 2 of the display shows "2X:".

LAST EXP1 ZONE

In this step, enter the zone number of the last zone on Expander #1.

LAST EXP2 ZONE

In this step, enter the zone number of the last zone on Expander #2.

RESIDENCE CODE

A Residence Code must be entered when using the RF zone expander. This code must be the same as the Residence Code programmed in the Transmitters. (Skip this step if NOT using an RF zone expander.)

24HR ALARM

Select each zone that will be monitored 24 hours a day for Alarm conditions (never disarmed). (Fire, Medical, and Tamper are examples of such zones.)

EXIT DELAY

Select each zone that will be Exit Delayed.

ENTRY DELAY 1

Select each zone that will be controlled by Entry Delay 1. For expanded zones, you do not have the option of using two Entry Delay times.

NOTE: Do NOT program 24-hour expansion zones as entry delayed. The reason is that 24-hour zones selected as entry delayed do not bypass correctly during the entry time or when they are in alarm.

24HR TROUBLE

Select each zone that will be supervised for Trouble conditions 24 hours a day.

N.C. CONTACT

Select each zone that will be using Normally Closed contacts. All 4101 sensors are N.C. contact. (If you are using the RF zone expander, skip this step.)

INTERIOR

Select each zone that will be used as Interior zones. (Only the 16 built-in zones can chime.)

BYPASSABLE (SHUNTABLE)

Select each zone that you will want to be able to Bypass (Shunt).

5 DIALER

COMPUTER PH#

If you will be using the downloading feature of the 4720, you must enter the phone number that the computer will be connected to. The number entered may be up to 16 digits long. If a pause is needed, such as after dialing "1" for a long distance number, enter an "A". If an internal phone system is being used where you must dial a special number to establish an outside line (and wait for a second dial tone), enter a "D" after the number dialed to establish the outside line.

EXAMPLE: If you must dial "9" before being able to dial the outside number of XXX-XXXX, you would enter the number in this manner: "9DXXXXXXX"

RETRY IF FAIL

For this option the 4720 will retry to send a report 15 minutes after it has failed its maximum number of attempts. If it fails all attempts again, it will not retry again.

2 PHONE LINES

Select this option if you are using two phone lines (requires the use of the Model 4175 Dual Phone Line Monitor).

GROUND START

Select this option if you are using a Ground Start telephone network (not acceptable for UL installations).

LINE MONITOR

Select this option if you will be using the Model 4175 Dual Phone Line Monitor. You can monitor line 1 only, if you do not have a second phone, but you cannot have both a monitored line and an unmonitored line.

ANSWER RING DET.

Select this option if you wish to have the computer call the 4720 and download in the same call. If you do not select this option, the 4720 will wait until the phone stops ringing, then dial up the computer for maximum security.

STORE OP/CL

If selected, Opening and Closing reports will be stored in the memory of the 4720. They will be reported to the central station whenever a TEST is initiated. (Up to 16 reports can be stored. If the storage buffer fills up, it will automatically report without waiting for a test.)

UP/DOWN USED

When the 4720 receives a signal for downloading it will dial the number selected above and use the Account Number that is programmed for Phone Number #4.

LOCAL ONLY

If you select YES, the dialer will never call the central station. This is useful while setting up the system. Selecting YES will also skip over the next two options.

FAIL ATTEMPTS

Enter the number of attempts (1-15) that the 4720 will try to dial out before it gives a Dialer Failed signal.

TOTAL ATTEMPTS

Enter the overall number of attempts (1-15) that the 4720 will try to dial out using all phone numbers. You must use at least 5 attempts in a UL installation.

RINGS

This option is used in conjunction with the downloading feature. You would program the number of times (1-15) that your phone will ring before the 4720 panel will dial out for downloading information. If you do not wish to use this feature, enter a "0". If you also selected ANSWER RING DET. and REP. ALL OP/CL, the 4720 will answer after 4 fewer rings if the system is armed.

NOTE: The 4720 will never answer until at least 2 rings.

AC LOSS HOURS

For this option, program the number of hours (1-15) that the AC power must be OFF before a Loss Of AC report is generated. You must select between 6 and 12 hours in a UL Certificated installation.

REPORT ALARM

Select the phone numbers (1-4) that Alarms can be reported to.

REPORT TROUBLE

Select the phone numbers (1-4) that Troubles can be reported to. Trouble restores will automatically report to these numbers.

REPORT BYPASS (SHUNT)

Select the phone numbers (1-4) that Bypasses (Shunts) can be reported to.

REPORT RESTORE

Select the phone numbers (1-4) that Alarm or Bypass (Shunt) Restores can be reported to. Restores will report only to the same numbers as the Alarm or Bypass (Shunt) did.

REPORT OP RESET

Select the phone numbers (1-4) that the 4720 can report to when the panel is Disarmed from an Alarm condition. Include any numbers that are also selected in the next step.

REPORT OP/CL

Select the phone numbers (1-4) that the 4720 can report to for normal or exception. Open and Close reports.

REPORT DOOR

Select the phone numbers (1-4) that the 4720 can report Door Access information to.

REPORT TEST

Select the phone numbers (1-4) that Test signals can be reported to.

MUST REPORT

Select the phone numbers (1-4) that the 4720 MUST report to. Numbers NOT selected will be used only as backups - if an event cannot report to another number.

*NOTE: The MUST REPORT numbers must be the lower numbers (before the backups).
Your choices are: 1, 1&2, 1&2&3, 1&2&3&4.*

TOUCHTONE

Select the phone lines (1-2) that will use Touch-Tone dialing. Phone Lines not selected will use rotary type dialing only.

NOTE: The dialer will alternate between Touch-Tone and rotary dialing on subsequent attempts if you have selected TOUCHTONE. If 3 is selected, the lines selected for TOUCHTONE will dial Touch-Tone only. Option 4 is Not Used.

PHONE #1

Enter Phone #1, up to 16 digits, enter "A" for a pause, "D" for a second dial tone.

PHONE #2

Enter Phone #2

PHONE #3

Enter Phone #3

PHONE #4

Enter Phone #4

ACCOUNT #1

Enter Account #1, (6 digits MAX.)

FORMAT #1

From the list below, choose the format that Account #1 will use.

Use the arrow keys to select. The compatible Silent Knight receivers are shown in parenthesis.

1 = SEIA8 (9004)	4 = BFSK 1400HZ (9002)
2 = FSK 1 (8520)	5 = BFSK 2300HZ (9002)
3 = FSK 2 (9002)	6 = SEIA20 (9004I)
	7 = SK 4/2 (8520)

NOTE: Do not select SEIA20 unless the receiver has a 9004I card. The 9004 card can only accept SEIA8.

ATTEMPTS #1

Enter the number of attempts (1-7) that the 4720 will try to this Account# before switching to the next number (typically 1 attempt).

LISTEN TIME

Enter (in seconds) the Listen-In Time (20 - 255, 0 if not used).

LISTEN TO:

Use the arrow keys to select between ALL REPORTS, and ALARM/TEST only.

USE LINE 1 ONLY

Select this option if you wish to use Phone Line #1 ONLY. You would typically do this only if using a Direct Line, or if using a WATTS line.

USE LINE 2 ONLY

Select this option if you wish to use Phone Line #2 ONLY.

DIRECT LINE

Select this option if you will be connecting the 4720 directly to a Model 9000 Receiver without using the switched telephone network. You must also select a SEIA format (requires a Model 9103 line card).

Repeat the above steps for Accounts 2, 3, and 4.

NOTE: Account #4 will be sent to the downloading computer. Model 4150 analog reports will be sent to phone #4 using Account # 4. Account #4 must be a SEIA format when using the 4150.

6 INTERCOM (Skip if not using the Model 4140.)

ICOM TIMEOUT

Enter (in seconds) the amount of time that the intercom function will be active.

LONG DIST OK

When this option is selected, the telephone function may be used for long distance calls.

PHONE TIMEOUT

Select this option if you want the phone feature to have a limited length for calls. The Phone Time-Out will be the same length selected for ICOM Time-Out.

ONE WAY LISTEN

Select this option if you will be using the One Way Listen-In feature.

NOTE: Listen-In to Duress or Holdup will automatically be one-way, regardless of this option.

TOUCHTONE

Select this option if you will be using Touch-Tone dialing with the telephone feature.

NEED DIAL TONE

Select this option if you wish the Phone feature to wait for a dial tone before dialing.

MEM DIAL ONLY

NOTE: To use the MEM DIAL ONLY and LISTEN STATIONS options, the Model 5520 must have Software Revision 870616 or later. The Model 4140 Intercom/Telephone Controller must have Software Revision Level 870609 or later.

If you select this option, only the two memory phone numbers can be dialed.

RING STATIONS

Select the intercom/telephone stations (1-8) where the telephone will ring when there is an incoming call.

LISTEN STATIONS

Select the intercom/telephone stations (1-8) that will be audible at the central station during Listen-In. The Listen-In feature will be "ONE WAY" during Holdup Alarms.

QUIET STATIONS

Select the intercom/telephone stations at which there will be no annunciation of keystrokes, or trouble or alarm conditions.

NOTE: This option requires Model 4140 Software Rev. 900212 or later.

MEM PH#1

Enter the telephone number for Memory Location #1 (up to 12 digits).

MEM PH#2

Enter the telephone number for Memory Location #2 (up to 12 digits).

7 TIMERS

AUD SHUTDOWN (1-255)

Decide the number of seconds that you wish to have the Audible Alarms active. Divide the number of seconds by 10 before entering.

EXAMPLE: If you entered 50, the Audio Shutdown will be 500 seconds.

EXIT DELAY (1-255)

Enter (in seconds) the length of the Exit delay.

ENTRY DELAY 1 (1-255)

Enter (in seconds) the length of the Entry Delay for zones controlled by Entry Delay 1.

ENTRY DELAY 2 (1-255)

Enter (in seconds) the length of the Entry Delay for zones controlled by Entry Delay 2.

SWINGER WINDOW (1-24)

Enter (in hours) the length of the Swinger Window. A Swinger Bypass (Shunt) will occur on the 5th trip when a zone has caused 4 alarms within the Swinger Window.

RF SUPERVISION (2-24)

Enter the Supervision Interval (in hours). (Minimum of 2 Hrs.)

EXAMPLE: If you enter a "3", the 4720 will check for supervisory transmissions from the RF Transmitters every 3 hours.

DOOR STRIKE (1-15)

For this step enter the time that the Doorstrike stays activated. The table below shows the actual seconds for each selection.

NOTE: *If a door contact is connected to the keystation, the doorstrike will turn off 1 second after the door is opened.*

1 = .8 Seconds	8 = 6.4 Seconds
2 = 1.6 Seconds	9 = 7.2 Seconds
3 = 2.4 Seconds	10 = 8 Seconds
4 = 3.2 Seconds	11 = 8.8 Seconds
5 = 4 Seconds	12 = 9.6 Seconds
6 = 4.8 Seconds	13 = 10.4 Seconds
7 = 5.6 Seconds	14 = 11.2 Seconds
	15 = 12 Seconds

DOOR OPEN MAX (1-255)

Enter (in seconds) the maximum time that the door can remain open before the 4720 will send a Door Left Open report.

ALM REP DELAY (1-255)

Enter (in seconds) the amount of delay that you wish to have between the time that an Alarm condition is sensed and when the 4720 will actually report the Alarm. Delayed Reporting is selectable by zone in the ZONE TYPES section.

CLOSED DAYS (SMTWTFS)

This option will allow you to select certain days when the building will be closed and all access will be denied (Except Code 0 and 1). Press 0 - 6 to select Sunday - Saturday.

SPECIAL DAYS (SMTWTFS)

This option will allow you to select certain days to use the Special Window Times (programmed in a later section). Use the digits 0-6 to select Special days Sunday through Saturday respectively.

EXAMPLE: If you wish Saturday and Sunday to have different Opening and Closing times than the weekdays, select "0" and "6" for this option.

AUTO TEST

If you will be using one of the Test features below, you MUST select this option. If NO is selected, the programmer will skip the next three options.

DAILY TEST

To send a TEST report every day select this option. If "YES" is selected, the programmer will skip the TEST DAY option.

TEST DAY

This option allows you to select which day of the week that the 4720 will send a TEST report to the central station. Only 1 day may be selected. The choices are as follows:

- 0 = Sunday
- 1 = Monday
- 2 = Tuesday
- 3 = Wednesday
- 4 = Thursday
- 5 = Friday
- 6 = Saturday

TEST TIME

Enter (in military time) the time of day that you wish to send a TEST report to the central station.

8 ACCESS OPTS.

ACCESS FOR #0

For this step choose the specific functions that Code 0 can perform. The choices are as follows:

- 1 = Door
- 2 = Bypass (Shunt)
- 3 = Close (Arm)
- 4 = Open (Disarm)

Press 1, 2, 3, 4, or D, B, C, O, to toggle the corresponding options.

The arrow keys can be used to turn all 4 options ON or OFF.

EXAMPLE: If you want Code 0 to be able to Arm and Disarm only, you would enter the digits "3" and "4".

If you want Access Code 0 to be able to perform all functions, you would enter "1" "2" "3" and "4".

Repeat for each code being used (up to 99).

9 SECRET CODES

Code 0 is the installer's code. Only Code 0 can access the HEX Programming Mode.

Code 1 is the master user's code. Only codes 0 and 1 can change access codes from a keystation. On a residential system, Codes 1 through 9 are primary codes and Codes 10-99 are secondary codes, which can be disabled using the Code 2 function.

DURESS TRIGGER

If the Duress option was selected earlier, you must enter a 1- or 2-digit code which will activate a Duress alarm. The digits entered MUST NOT be the same as the beginning digits of any access code.

SECRET CODE #0

This step is where you enter the actual Access Code for Code 0. The code can be from 3 to 6 digits in length. Repeat for each code being used (up to 99). If you will be using the High Security code, it must be entered in the space for Secret Code 99. (Unused codes should be blank.) It is recommended that all codes be the same length.

10 DOOR STATIONS (Skip if not using door access.)

DOORS, CODE #0

This option allows you to select which keystations a specific code may be used at for door access. Enter the ID number of the keystations at which Code 0 may be used (1 through 15).

Repeat for all codes being used (up to 99).

Door #0 can never be accessed. Press 1-9 for stations 1-9 and press A-F for stations 10-15. The arrow keys can be used to turn all stations ON or OFF.

11 WINDOWS

NORM OPEN

For this option you will enter a "Time Window" during which the system should be disarmed. An example of this window might be from 8:00 AM to 9:00 AM. If the system is Disarmed within the time window selected, and REP EXCPTN O/C was selected, no report will be generated. If the system is not Disarmed by 9:00 AM and OT/CT was selected, the 4720 will send a "Close Trouble" report meaning that the system is still ARMED when it should have been DISARMED. When the 4720 is eventually Disarmed, it will generate an Opening report. If the system is disarmed any time outside of the time window selected, it will also generate an Opening report.

If AUTO OPEN was selected, the 4720 will disarm automatically at the "UNTIL" time.

NORM CLOSE

For this option you will enter the Normal Close time window. If the system is Armed within this time window, and REP EXCPTN O/C was selected, there will be no report to the central station. If the system is not armed by the end of the window selected and REP OT/CT was selected, an Open Trouble Report will be generated indicating that the system is still Disarmed. If the system is Armed early or late, a Closing report will be generated.

If AUTO CLOSE was selected, the 4720 will arm automatically at the "UNTIL" time.

SPEC OPEN

For this option you will enter the SPECIAL OPEN time window to be used on SPECIAL days. Press <N> to select "NEVER" if the system is not to be Disarmed on Special days. Operation is the same as for the NORM OPEN window.

SPEC CLOSE

For this option you will enter the SPECIAL CLOSE time window to be used on SPECIAL days. Operation is the same as for the NORM CLOSE window.

ACCESS WINDOWS

If you select YES, then the 100 access codes will be divided into groups, and each can access the system only during that groups time window, if you select NO then all codes will work at any time.

*NOTE 1: The NORM TIME #2 and SPEC TIME #2 options below are programmed differently from the SPEC OPEN and SPEC CLOSE options. To program actual Normal or Special time windows, follow the directions under NORM TIME #2 or SPEC TIME #2. If you want a particular Normal or Special time window **always** or **never** to be valid, wait until you reach the NORM GRP CODE #0 or SPEC GRP CODE #0 option (see next page), then select <0> for "ALWAYS" or <1> for "NEVER."*

*Do **NOT** press <N> to select "NEVER" in the NORM TIME #2 or SPEC TIME #2 options. Selecting "from NEVER until NEVER" does **NOT** restrict the access code.*

NOTE 2: Codes 0 (installer's code) and 1 (main user's code) cannot be restricted by the access windows; they are always enabled.

NORM TIME #2

For this option you will enter the Normal Time Window for Group #2. In a later option of this section you will be required to enter the Normal Group Number for each access code. Repeat this procedure for Normal Time Windows 3 through 15.

SPEC TIME #2

For this option you will enter the Special Time Window for Group #2. In a later option of this section you will be required to enter the Special Group Number for each access code. Repeat this procedure for Special Time Windows 3 through 15.

NOTE 1: Midnight (00:00) is considered the beginning of the day and 23:59 is the end of the day.

NOTE 2: Normal/Special status becomes effective at midnight. The wrong windows may be in effect after programming options or changing the date, until midnight.

NOTE 3: To skip out of a step, such as if you are only using 10 of the 100 possible access codes - when you get to the 11th code, press <SHIFT> and <STEP> together, then press <MENU SKIP> by itself.

NORM GRP CODE #0

For this option you will select which Normal Time Window (0-15) will control Access Code #0. If "0" is selected, the access code will ALWAYS be valid and if "1" is selected, the access code will NEVER be valid. If a digit ranging from 2-15 is selected, the code will be valid during the corresponding time window.

NOTE: Code 0 and Code 1 will ALWAYS be valid regardless of this option.

SPEC GRP CODE #0

For this option you will select which Special Time Window (0-15) will control Access Code #0. If "0" is selected, the access code will ALWAYS be valid and if "1" is selected, the access code will NEVER be valid. If a digit ranging from 2-15 is selected, the code will be valid during the corresponding time window.

Repeat the above two steps for Codes 1-99.

NOTE: Code 0 and Code 1 will ALWAYS be valid regardless of this option.

AREAS FOR GRP #0

This option applies only to the Model 4721. Select the areas that will be controlled by Group #0. Repeat this step for Groups 1-15.

NOTE: If you will be using both access windows and areas, you must not assign any areas to group #1, since that group is NEVER valid.

12 SYSTEM MESSAGES

CAUTION: If your new message has more characters than the original, it may not be accepted by the 5520. These messages have been placed in the 4791 chip as default values. They may be changed but remember to use words that have a similar meaning as the default word.

EXAMPLE: One of the first default values is the word "BYPASSED" ("SHUNTED"). If for some reason you do not like this word, you may want to change it to "REMOVED". Now when you Bypass (Shunt) a zone, the LCD display will show "REMOVED".

NOTE: Some messages use the same word such as "CODE" and "ENTER CODE". If you would change the word "CODE" to "NUMBER", then "ENTER CODE" would become "ENTER NUMBER".

These messages are for keystations with LCD displays only.

13 ZONE TYPES

In this section you will be required to enter 5 separate options for each zone.

ZONE TYPE #1 (Use the arrow keys to select the Zone Types.)

HOLDUP, FIRE, MEDICAL, PANIC, INTRUSION, TAMPER, GAS, *UNDEF AUX, *WATER, *HEAT, *COLD, *LOCAL AUX, *UNUSED, *DOORBELL

* These zones will be displayed as AUXILIARY on the LCD. If LOCAL is selected, the panel will not dial out.

AUD FOR ZONE #1

For this option you will select how the audible signals will react to Alarms. Press S, R, B, N, to toggle options.

SA = Silent Alarm (no audible)

RD = Delayed Report (alarm report will be delayed - allows user time to abort a false alarm) programmable 1-255 seconds.

BD = Delayed Bell (no external bell unless the dialer fails to communicate)

NS = No Shutdown (bell will not shutdown until the panel is Disarmed)

NOTE: Holdup zones must be selected as Silent Alarm. Fire zones must be selected as No Shutdown for UL certified installations.

14 ZONE LOCATIONS

AREA #1

This option applies to the 4721 only. Select a name for each area being used (15 characters max). You must name all 8 areas. For example, if using 4 areas, area 1 and 5 should be given the same name.

LOCATION #1

For this option enter the location description of Zone 1 such as "BEDROOM" or "GARAGE". You may use any description that you want but the description must not be more than 13 characters in length including spaces.

NOTES: To erase all of the locations, press <CTRL> and <E> at the same time. The press <Y> when the 5520 asks if you are sure. To erase the area names, you must skip to zone location #1, then press <CTRL> <E>. This will erase both the area names and the zone locations. There is a limited amount of storage for locations. To see how much room is left, press <CTRL> <F>. To make the 5520 search out and erase unused words, press <CTRL> <P>.

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