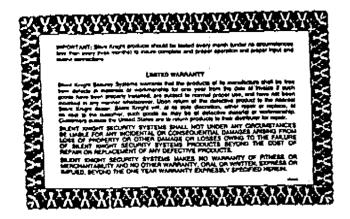
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## **MODEL 5510**

**PROGRAMMER** 



SUFN' KNIGHT SECURITY SYSTEMS DOMOGRAPHICS INC.



1700 FAKEWAY BOULEVAND MINITA MARKETANIK III, MINISMAJA PELEPINIM SI 27500-05 HI SI 12 MINISMAJA OPERATION MANUAL





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5510 PROGRAMMER OPERATING INSTRUCTIONS

The 5519 programmer can be used to program Micor 2443 3 EEPREMs for several different models of Silent Knight equipment.

It is momered from a single 9 wolt alkaline battery that will provide approximately 16 hours of continuous 3 use. The 5510 also has an auto off feature that will turn off the programmer if no keys are depressed for 5  $^\circ$ excutes. Figure 1 shows the general layout of the 3510  $^{10}\,$ programmer.

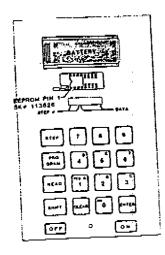


Figure 1

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EEFRURY THE RANGE ASSESSED. erasable PROM that can be repropraised many times with different data.

PROM Socket: The 5510 has a zero-insertion force socket for the EEPROM. The EEPROM must be inserted with the lever on the socket pointing up. Besure the EEPROM is inserted with its notched end closest to the lever. After insertion of the EEPROM gove the lever to the down position. Figure 1 shows the correct orientation for the EEPROM. Always be sure you insert the EEPROM correctly in the socket.

DISPLAY: The 5510 has a six digit LED display. The left two digits are used to indicate the programming step number and the right four digits are for the display of data.

TOUCH KEYS: Eighteen touch keys are used for data entry. reading and programming the PROMS.

DN: The on key will turn on the 5510 programmer. The display will show a friendly HELLO in resoonse to pressing on.

OFF: The off key will turn off the 5510. All data in the programmer will be lost.

ENTER: The enter key enters the data in the display in: the internal RAM of the SSiO. The step number is also incremented and data for that step is displayed. See example below. (#= blank digit)

> Disolay shows: 10 1501 Press-ENTER Display shows:11 data

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Display shows: tO 150)
Press-ENTER

Display shows:11 1111

You are now ready to begin programming the 6 steps of the PROM CODING FORM for the model 1501. The object is to match the display of the 5510 to the steps completed on the PROM CODING FORM and then press ENTER to advance to the next step.

Step 1: 7 Ione Number (1-16) This transmitter was, selected to activate zone 7.

Press-7
Display shows:#1 ###7
Press-ENTER
Display shows:#2 ###0

Step 2: 0 Response Time (1)=10ms (0)\*100ms The response time was selected to be 100ms. Since 0 was the default value for step 2, just press ENTER.

Press-ENTER
Display shows:#3 ###0

Step 3: 1 Contact Type (1)=N.O. (0)=N.C. The contacts to be used are N.O. type.

Press-1 Display shows:#3 ###1 Press-ENTER Display shows:#4 ###0

Step 4: 1 Transmitter Type (1)=Intrusion (0)=Fire This transmitter will be an intrusion type.

Press-1 Display shows: 14 1111

5

Step 5: 18 ID Number (0-53) The ID number selected was 18.

Display shows: 15 #110

Press-1
Display shows: t5 1111
Press-8
Display shows: t5 1119
Press-ENTER
Display shows: t6 1111

Step 6: 947 Resident Code (0-1023) This code is the same for all transmitters in the system. 947 was selected.

Press-9
Disolav shows:16 t119
Press-4
Disolav shows:16 1194
Press-7
Disolav shows:16 1947
Press-ENTER
Disolav shows:10 1501

You have now entered all 6 steps for the model 1501 into the RAM of the 5510 and are ready to program the 2443 EEPROM. To do this out the 2443 EEPROM into the socket correctly (see figure 1). Press the PROBRAM key, when programming is complete the display will indicate PASS or FAIL. PASS indicates that the EEPROM was programed with the same data that was entered into the 5510 RAM.

FAIL indicates that either the EEPROM was inserted incorrectly, no EEPROM was inserted, or the EEPROM is defective.

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The 1501 coding which you have just seen uses two types

1) Tes/No questions - Yes=1. No=0

-4 Wiestians.

2) Number questions - (Do not enter numbers greater than the waximum shown on the coding form.)

Other models may use these types and some additional types, which are as follows:

- 3) Long numbers Numbers with more than 4 digits (such as chone numbers) cannot be displayed as a whole. Press ENTER to scroll additional digits into the display when examining these steps. To enter a new number, just enter the digits (the programmer will remember the digits that scroll off the display) and press ENTER after the last
- 4) 8 Yes/No questions in one step To reduce the number of stees, eight Yes/No type questions are combined in one step. The data display will show the corresponding digit 1+8 for each sub-step answer of YES. A blank digit indicates an answer of NO. The display will alternate between 1234 and 5678. Pressing a digit will togale the corresponding digit in the display.

Press enter when the proper combination of digits are hisplayed. This type of question will appear on the coding form as :

Step# 1 2 3 4 5 6 7 8 : question....

or as :

Step# .1 question....

Step# .8 question....

The 5510 can be undated to accompdate new models which use the Kicor 2443 EEPROM. If you enter a model # which is not in the programmers sofure, the display will show revision number can be examined by entering Model #0. This unit is revision -0002- and can program the folloing audels: 1501 1502 1503 1504 1505 1520

The 5510 is updated by replacing its sofware chip. The

> 2722 1420

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'gh: Ire step key is used to jump to any step number and and hisplay the data that is currently in the 5510 memory. See example below.

> Press-STEP Display shows: 10 ttt1 Press-8 Display shows: 18 1111 Press-ENTER Display shows: #8 data

HIFT: The shift key enables the hex characters A. B. C. C. 1. E. and F on the key pad. When the shift key is pressed a "-" appears. Indicating that the shift is activated. Pressing a digit key will then produce a hexage character A-F instead of 1-6. See example below.

> Display Shows: 12 4567 Press-SHIFT Display shows: 12 567-Press-B Display shows: 12 567b

CLEAR: The clear key has three functions. It is normallylly teed to blank the data display. See example below.

> Display shows:12 567b Press-CLEAR Bisolav shows:12 ####

When in the sten mode the CLEAR key clears the step display to "O".

> Display shows: 18 1111 Press-CLEAR Display shows:10 ####

> > 3

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When in the shift mode the ELEAR key restores the data display to what it was prior to pressing the shift

> Display shows:12 567-Press-CLEAR Display shows: 12 4567

READ: The read key reads data from the EEPROM and outs it into the internal RAM of the 5510. The read key is only active in stem \*0\*.

PROGRAM: The program key writes data into the EEPROM from the internal RAM of the 5510. After programming the EEPROM is automatically verified to make sure it matches the RAM of the 5510. The propragating key is only active in step "0".

Programming Examples

Model 1501: Open the case, push the ON key.

Disolay shows: #HELLO Press-ENTER Display shows: 10 1110

You are now in step "O" and ready to start procramming.

Step 0: Enter the model number of the equipment you are programming the EEPROM for. In this example it is 1501.

> Press-1 Display shows:10 1111 Press-S Display shows: 10 1115 Press-0 Display shows: \$0 \$150 Press-1