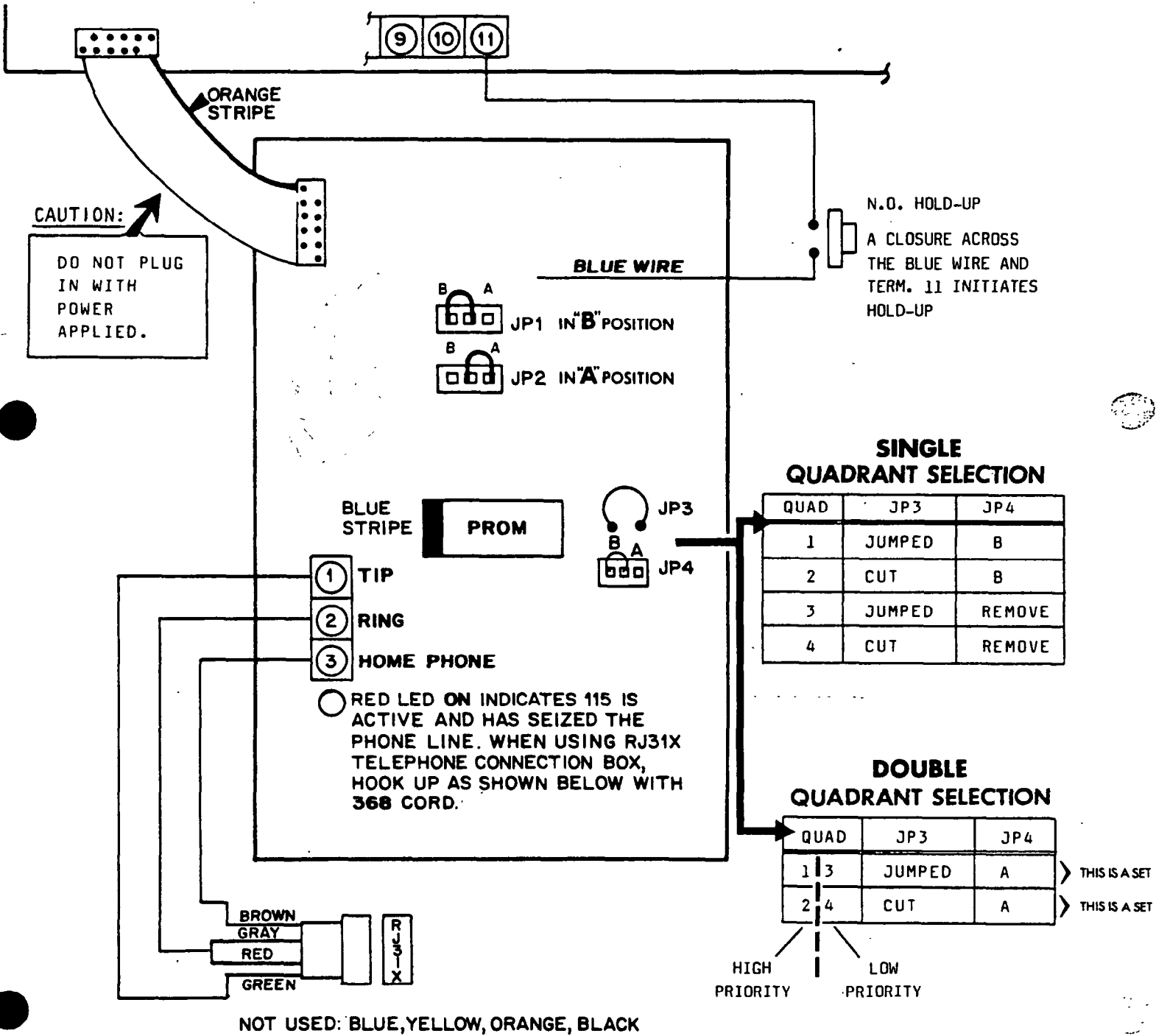


REVISED 115 PROGRAMMING INSTRUCTIONS  
FOR USE WITH THE 1064

DISREGARD PROGRAMMING INFORMATION  
ON PAGES 8 THRU 12 OF THE 1064  
INSTALLATION INSTRUCTIONS. USE THESE  
REVISED 115 PROGRAMMING INSTRUCTIONS  
WHICH ARE INCLUDED INSTEAD.

**FIG.#5**  
**MODEL 115 COMMUNICATOR**

**NOTE:** BEFORE INSTALLING 115 YOU MUST REMOVE ALL POWER, AC TRANSFORMER AND BATTERY. THEN INSTALL 115 WITH CABLE AND THEN REAPPLY POWER.

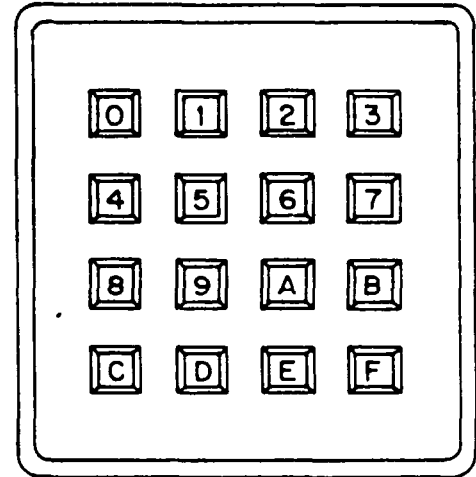




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KEYPAD



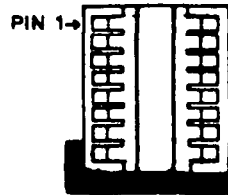
L.E.D. DISPLAY



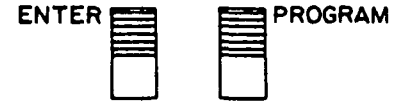
FIRST TWO DIGITS ARE THE FIELD CODE



PROM SOCKET



FIELD CODE	FIELD NAME	FIELD NUMBER
OP	COMMON PHONE # PREFIX	1
1P	FIRST PHONE #	2
2P	SECOND PHONE #	3
3P	THIRD PHONE #	4
AF	# OF ATTEMPTS # OF ACKNOWLEDGEMENTS	5
FF	RECEIVER TYPE	6
AC	ACCOUNT CODE	7
AL	ALARM CODES	8



110 PROGRAMMER

# Model 110

## MODE SWITCH:

Allows the programmer to make chips for 100B dialers, as well as the newer computer-based dialers.

## QUADRANT SWITCHES 7 & 8:

Divide the prom into 4 separate segments, allowing four different programs to be stored on the prom. The switches are set to the prom segment in use.

## ENTER SWITCH:

Prepares the programmer to receive a command. Switch must be pressed before moving into another field in the memory bank.

## PROM SOCKET:

A blank prom placed in this socket can be burned with any information in the memory bank or a master prom can be placed in the socket and all of its information can be inserted into the memory bank. The 110 uses a National Semiconductor DM74S387N or MM1635140 J or P chip:

## KEYPAD:

Used to enter information into memory and to move from field to field in memory.

## PROGRAM SWITCH:

Takes the information in the memory bank and burns it onto a prom in the prom socket.

## L.E.D. DISPLAY:

The first two digits display the field currently accessed. Field may be programmed for 11 digits or less. See programming instructions.

The filled holes in the display above are blank.

## programming

The new 115 is a digital dialer which uses a program chip (prom).

Understanding the programming instructions, which follow, is essential because many outputs are possible with each activation. The dialer will transmit codes for either momentary or maintained inputs and restores. If a maintained input is aborted during transmission a choice of either an abort code, restore code or complete aborting of the transmission is programmable. The prom can also be programmed to test the dialer at 18 hour intervals, beginning from the last transmission. The dialer is also capable of accessing three different receivers, with each activation, and will shut down after being kissed-off by one or all receivers, depending on programming.

**CAUTION: THERE SHOULD BE NO POWER ON THE 1064 WHEN PROM IS INSERTED. PLUGGING IN PROM WITH POWER ON THE PANEL, WILL CAUSE THE DIALER TO TRANSMIT OUT OF PROGRAM.**

## RJ31X

Before using the digital dialer, the telephone company shall be requested to install a USOCRJ31X jack on the telephone line. Give the telephone company the FCC registration (AE398E-70112-AL-R) & the ringer equivalence (0.0B) numbers for the 1064. Connect the 1064 to an approved modular plug (#368) to mate with the RJ31X as shown on page 8.

Should the 1064 cause harm to the telephone network, the telephone company may temporarily discontinue service until the problem is corrected. Notice of such action will be given by the telephone company.

Should the telephone company make any changes to its facility or other requirements that could render the 1064 incompatible, the customer shall be given adequate notice by the telephone company, in writing. Upon receipt of this information from the customer, the manufacturer shall advise the customer as to what actions must be taken to maintain uninterrupted service.

The Model 1064 may not be connected to party lines or coin lines. If trouble is experienced, the 1064 shall be disconnected from the phone line, by means of the plug shown to determine if the 1064 is malfunctioning. If the 1064 is malfunctioning, do not reconnect until the problem has been corrected.

# programming

The prom used is a Model F102 (74S387) and is programmed on our Model 110 programmer as follows:

- 1) Plug in the 110 programmer. OP should appear on the LED display.
- 2) Set Mode Switch, Quadrant Switch 7 and Quadrant Switch 8 to desired positions.

<u>MODE SWITCH</u>	<u>QUADRANT SW.8</u>	<u>QUADRANT SW.7</u>	<u>QUADRANT SELECTED</u>
North	South	South	1
North	South	North	2
North	North	South	3
North	North	North	4

**SINGLE QUADRANT OPERATION  
(HOLDUP NCT USED)**

- 3) The first digit of the OP field will determine the dialer transmission of Zone 4. Depending on the programming of the prom, if the control panel is disarmed before the transmission is complete, the dialer can either abort, send a restore code on abort or abort code on abort. Select one of the following digits for the desired function of Zone 4.

<u>Digit</u>	<u>Zone 4</u>	<u>Dialer Output</u>
0	Momentary	Zone 4 Code/no Abort
1	Maintained	Zone 4 Code w/Abort
2	Maintained	Zone 4 Code w/Restore on Abort
3	Maintained	Zone 4 Code w/Abort Code

All options may have restore programmed later in the procedure.

- 4) The second digit of the OP field will determine the dialer transmission for Zone 2. Depending on the programming of the prom, if the control is disarmed before the transmission is complete the dialer can either abort, send a restore code or an abort code. Select one of the following digits in the second location of the field. This code will also determine if and when the dialer will transmit a test code. If a test code is desired it will be sent at 18 hour intervals after the last transmission.

The proper digit to program in the second location of the OP field is as follows:

<u>Digit</u>	<u>Zone 3</u>	<u>Dialer Output</u>	<u>Self Test</u>
0	Momentary	Zone 3 Code/no Abort	None
1	Maintained	Zone 3 Code w/Abort	None
2	Maintained	Zone 3 Code w/Restore Code on Abort	None
3	Maintained	Zone 3 Code w/Abort Code	None
4	Momentary	Zone 3 Code/no Abort	18 Hr.
5	Maintained	Zone 3 Code w/Abort	18 Hr.
6	Maintained	Zone 3 Code w/Restore Code on Abort	18 Hr.
7	Maintained	Zone 3 Code w/Abort Code	18 Hr.

If both Zone 3 and Self Test ARE NOT USED, program DIGIT 1.  
 If Zone 3 is NOT USED, but Self Test IS USED, program DIGIT 5.  
 All options may have restore programmed later in the procedure.

- 5) The third digit will determine the operation of Zone 2.

<u>Digit</u>	<u>Dialer Function</u>
0	Zone 2 Code/no Abort
1	Zone 2 Code w/Abort
2	Zone 2 Code w/Restore on Abort
3	Zone 2 Code w/Abort Code

All options may have a restore programmed later in the procedure.

- 6) The fourth digit will determine the operation of Zone 1.

<u>Digit</u>	<u>Dialer Function</u>
0	Zone 1 Code/no Abort
1	Zone 1 Code w/Abort
2	Zone 1 Code w/Restore on Abort
3	Zone 1 Code w/Abort Code

All options may have a restore programmed later in the procedure.

- 7) Beginning with the fifth digit of the OP field, if a common prefix is needed for all receivers, (9, area code, etc.) it may be keyed in here. If a time delay is needed before or between digits, key in "C" where the delay (3 secs.) is needed.

- 8) Press ENTER switch, then 9. 1P should appear on the LED display. Key in the first telephone number. Up to 11 digits may be used.

- Information must be entered in this field -

- 9) Press ENTER switch, then 9. 2P should appear on the LED display. Key in the second telephone number. Up to 11 digits may be used. If no number is needed, leave blank.

- 10) Press ENTER switch, then 9. 3P should appear on the LED display. Key in the third telephone number. Up to 11 digits may be used. If no number is needed, leave blank.

- 11) Press ENTER, then 9. AF should appear on the LED display. The first digit in this field will determine the number of attempts the dialer will make to reach the receiver. See chart below:

No. of Attempts	Use Digit	No. of Attempts	Use Digit	No. of Attempts	Use Digit
1	1	7	7	12	C
2	2	8	8	13	D
3	3	9	9	14	E
4	4	10	0	15	A
5	5	11	B	Unlimited	F
6	6				

**IMPORTANT:** When F is pressed, the number does not display, but the space is left blank. The second digit in the field will determine the number of receivers the dialer must access before it shuts down. Select as follows:

Any one receiver - 8

All receivers - C

- 12) Press ENTER, then 9. FF should appear on the LED display. This field will determine receiver format. One digit must be keyed in for each phone number programmed. See chart for selecting the proper receiver code:

<u>RECEIVER TYPE</u>	<u>USE DIGIT</u>
Franklin	1
DCI	1
Sescoa	1
Radionics (2300)	1
Radionics (1400)	3
Adcor CDR 50	3
Ademco without Kiss-off	4
Ademco with Kiss-off	5
Silent Knight without Kiss-off	6
Silent Knight with Kiss-off	7

Information must be entered in this field.

- 13) Press ENTER, then 9. AC should appear on the LED display. Key in a 3 or 4 digit account code. NOTE: Receiver must be capable of handling 4 digit account numbers.

Information must be entered in this field.

- 14) Press ENTER, then 9. AL should appear on the LED display. Key in digits for the following alarms.

(Program an "F", which leaves a blank, for any row NOT BEING USED).

<u>Row</u>	<u>Description</u>	<u>Code</u>
1	Zone 4	0-9 or F
2	Zone 3	0-9 or F
3	Zone 2	0-9 or F
4	Zone 1	0-9, A or F
5	Closing	0-9, C or F
6	Opening	0-9, B or F
7	Restore Zone 4	0-9, E or F
8	Restore Zone 3	0-9, E or F
9	Restore Zone 2	0-9, E or F
10	Restore Zone 1	0-9, E or F
11	Abort Code/Test Code	0-9, D or F

Note: For English Language Printout of Codes use:

A	-	Trouble
B	-	Opening
C	-	Closing
D	-	Abort
E	-	Restore

Use "A" if Auxiliary channel is being used to monitor TROUBLE. . . such as high or low temperature.

- 15) CHECK THE DATA. All information has now been entered into the fields. By pressing ENTER, then 9, the information, which is now in memory, can be checked and corrected if necessary. If a field must be changed or corrected, to go to that field, press ENTER, then the corresponding field number. The correct information may now be keyed in.
- 16) If all data is correct, a blank prom can now be inserted and "Burned" by pressing the Program switch momentarily. If the prom burns correctly, the word "FINISH" will appear on the LED display. If a different program is already on that quadrant, or if the prom is "Burned" incorrect, the words "NO CAN DO" will appear on the LED display. If "FINISH" does not display, that particular quadrant of the prom is not accepting the program and cannot be used again.

DOUBLE QUADRANT OPERATION (Holdup used)

HOLDUP NOTES

If the control panel is disarmed the holdup button will transmit the holdup code silently which will be programmed in the low priority quadrant. However, when the control panel is armed the holdup button will transmit zone 4 code silently which is programmed in the high priority quadrant.

When, and if holdup is desired it will be necessary to program two quadrants of the prom, one high priority, the other low priority. See chart below for appropriate quadrants desired.

DOUBLE QUADRANT SELECTION

High Priority	Low Priority	JP3	JP4
1	&	3	Jumped A
2	&	4	Cut A

PROGRAM THE HIGH PRIORITY QUADRANT FIRST AS FOLLOWS:

Program the 0P, 1P, 2P, 3P, AF, FF, AC fields exactly as specified in the single quadrant section of this instruction booklet on page 11.

Program the AL field as shown below. If no code is desired for any of these ROWS, program an F.

HIGH PRIORITY AL FIELD

<u>Row</u>	<u>Description</u>	<u>Code</u>
1	Zone 4	0-9 or F
2	Zone 3	0-9 or F
3	Zone 2	0-9 or F
4	Zone 1	0-9 or F
5	Closing	0-9, F or C
6	Always enter F	F
7	Restore Holdup Armed	0-9, F or E
8	Always Enter F	F
9	Always Enter F	F
10	Always Enter F	F
11	18 Hr. Test Code/ Abort Holdup Armed Code	0-9, F or D

## LOW PRIORITY QUADRANT

Program the following numbers in the first four locations (rows) of the OP field, 0, 1, 1, 1. Beginning with the fifth digit of the OP field a common phone prefix can be programmed here if needed.

NOTE: if an 18 hour test has been selected in the OP field of the high priority quadrant, the first four locations (rows) of the OP field in the low priority quadrant must be programmed as follows: 0, 4, 1, 1.

Program the 1P, 2P, 3P, AF, FF, AC fields exactly as specified in the single quadrant section of this booklet.

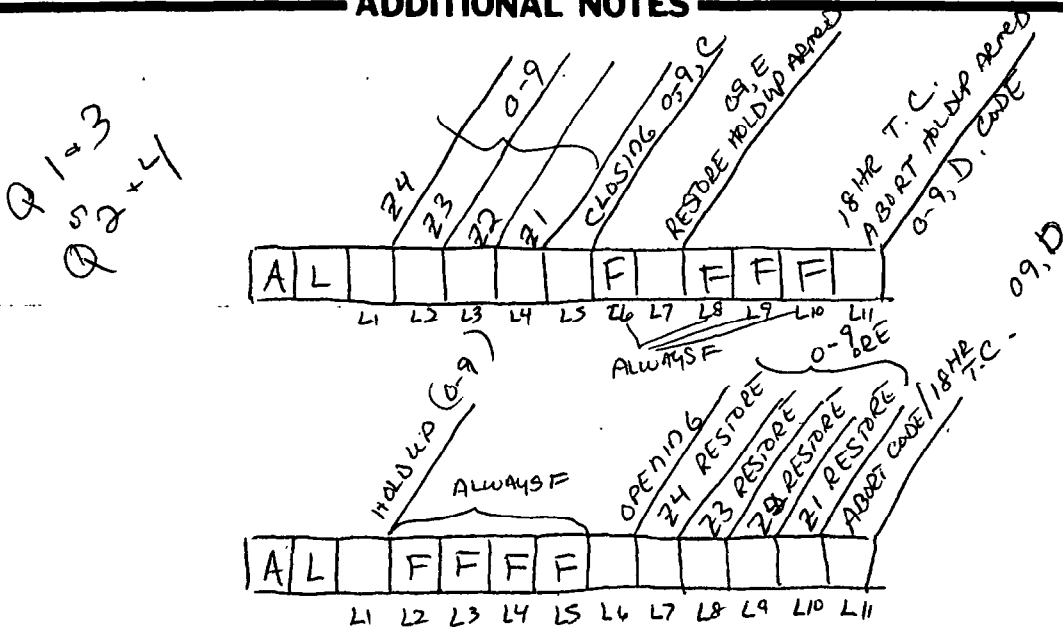
Program the AL field as shown below. If no code is desired for any of these rows, program an F.

### LOW PRIORITY AL FIELD

Row	Description	Code
1	Holdup	0-9 or F
2	Always enter F	F
3	Always enter F	F
4	Always enter F	F
5	Always enter F	F
6	Opening	0-9, F or B
7	Zone 4 Restore	0-9 or E
8	Zone 3 Restore	0-9 or E
9	Zone 2 Restore	0-9 or E
10	Zone 1 Restore	0-9 or E
11	Abort Code 18 Hr. Test Code	0-9, F or D

NOTE: If abort code and/or 18 hour test code has been programmed in the high priority quadrant, the SAME CODE MUST be programmed in the low priority quadrant.

### ADDITIONAL NOTES



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# PROGRAMMING SHEET FOR YOUR USE



CIRCLE QUADRANT USED:  
**1 2 3 or 4**

1- LOOP SELECTION/ COMMON PHONE PREFIX

	ZONE 4	ZONE 3	ZONE 2	ZONE 1	
O	P	1	4	3	2

2-FIRST PHONE NUMBER

1	P	5	8	2	6	1	6	1		
---	---	---	---	---	---	---	---	---	--	--

3-SECOND PHONE NUMBER

2	P									
---	---	--	--	--	--	--	--	--	--	--

4-THIRD PHONE NUMBER

3	P									
---	---	--	--	--	--	--	--	--	--	--

5-NUMBER OF ATTEMPTS AND ACKNOWLEDGMENTS

A	F	0	8							

6-RECEIVER TYPE

F	F	5								

7-ACCOUNT CODE

A	C	4	2	3		
---	---	---	---	---	--	--

8-ALARM CODES

	ZONE 4	ZONE 3	ZONE 2	ZONE 1	CLOSING	OPENING	RESTORE ZONE 4	RESTORE ZONE 3	RESTORE ZONE 2	RESTORE ZONE 1	ABORT CODE/TEST CODE
A	L	4	3	2	1	5	6	9	9	9	8