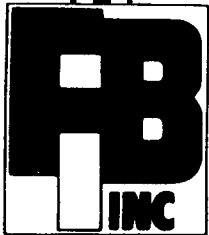


Model

1290 A

LISTED TO U.L. 985 AND 1023

**INSTALLATION
INSTRUCTIONS**



FIRE BURGLARY INSTRUMENTSTM INC.

50 Engineers Road, Hauppauge, N.Y. 11788

516-582-6161

800-645-5430

"WE DO WHAT THEY DON'T"

TERMINALS	DESCRIPTION
1 & 2	Secondary Circuit: Open circuit U.L. Listed devices wired in parallel. This circuit is only active when control is in bell cut-off. Use for interior protection. See NOTE "A" for hook-up in conjunction with primary protection. (FIG.#4)
3 & 4	Delay Loop: Closed circuit U.L. Listed devices wired in series. Entry & exit times are adjustable (see NOTE "B"). Exit time begins at arming. Entry time begins when loop is opened after exit time expires. Maximum delay loop resistance is: 2K ohm. See NOTE "B" for setup of timing switches. (FIG.#6)
4 & 5	Day Loop: Closed circuit U.L. Listed devices wired in series. An open on this circuit in disarmed mode will cause sonalert to come on. The day loop may be shunted by using the day bypass switch on the panel. Use for interior protection. Maximum day loop resistance is: 2K ohm.
6 & 7	Keyswitch: A momentary closure across these terminals will cause the panel to arm or disarm. Use 501L remotes. Due to loop lock-out feature, panel will not arm with a loop violated.
7 & 8	Silent Panic: Open circuit U.L. Listed devices wired in parallel. (Requires the use of the program chip.) A momentary or maintained closure will cause dialer activation and transmission of panic code. (Type of panic button will depend on programming of the chip.)
9 & 10	Instant Loop: Closed circuit U.L. Listed devices wired in series. An open on this loop in armed condition will cause an audible alarm and activation of digital dialer. Maximum instant loop resistance is: 2K ohm.
9 & 4	N.O. Instant Loop: Open circuit U.L. Listed devices wired in parallel.
11 & 13	Supervised Remote Fire Reset: Wire a normally closed push button (Model 666) across these terminals. Opening this circuit will cause the fire circuit, fire output & smoke detectors to reset and pulse the sonalert on terminals 19 & 20.
12 & 13	Supervised Fire Circuit: When fire circuit is used, JP3 should be in the "B" position and the jumper across terminals 11 & 13 should be replaced with a #666 fire reset switch. Wire U.L. Listed open circuit devices in parallel. Maximum loop resistance is 100 ohms. Use with 8.2K ohm endline resistor (Model 1264). Loop is active only when fire option #1234 (12 volt 2 pole relay) is used. A closure on these terminals will cause a voltage to appear on terminals 14(+) and 15(-). An open in this circuit will cause the sonalert to pulse and will transmit a fire trouble code, if programmed. If fire circuit is not used, JP3 should be in the "A" position. (FIGS.#1,2,3)
13 & 15	Smoke Detector Output: Continuous 12 volt output for powering smoke detectors. Use Model 609-12 (ESL #509B) only, 5 max. Active only when using fire reset station between terminals 11 & 13.
14 & 15	Fire Output: Rated at 12 volts for use with 679 siren driver. When these terminals are activated, the burglary bell will not activate. Dialer transmission will be normal as directed by the prom. (FIGS.#1 & 3)
15 & 16	12 Volt Regulated Power Supply: 16(+), 15(-). 12V regulated output for powering voltage sensitive U.L. Listed equipment. Output capability is 300 MA maximum, less than 100 MV P-P ripple.
17 & 7	Green L.E.D. Circuit: Remote loop indicator L.E.D. output per JP1 (see TABLE 1). Do not use incandescents. Use Model 501L type remotes (4 max.) . 17(-), 7(+)
19 & 20	Sonalert Output: Early warning indication for entry/exit circuit. Sonalert will also indicate an open on the day loop (disarmed) or fire loop (24 hr.). 19(-), 20(+). Use Model 872 or 1276 only. (FIG.#1) TABLE 3.

TERMINALS	DESCRIPTION
21 & 7	Red L.E.D. Circuit: Remote armed status indicator. LED on indicates system is armed. Do NOT use incandescents. If a loop is violated, the LED will blink and continue to blink until the system is disarmed. With JP2 in "A" position, the LED will blink while transmitting in the armed condition. This feature may be used as a ring back feature. Thus, when using opening/closing signals, the red LED will stop blinking when acknowledged. At all other times, the red LED is an alarm memory device. 21(-), 7(+) (FIG.#1,2)
22,23 & 24	Phone Line Connection: Connect tip to 22 and ring to 23. Home phone is connected to 23 and 24. FCC Reg. #AE-398E-70112-AL-R, ringer equivalence #0.0B. Use Model 368 to connect to telephone company supplied Model RJ 31-X. (FIG.#1)
25 & 26	Spare Contact: Normally open contact closes on burglary alarm. Contacts are rated at: 3A at 30VDC.
27 & 28	Burglary Output: 12 volts output on burglary for use with 679 siren driver. These terminals can only be activated if fire circuit is not in alarm. (FIG.#3)
29 & 30	A.C. Input: Use 12V 40VA U.L. Listed transformer (Model 1282) provided. Wire with 16 ga. wire(15 ft max). Do <u>NOT</u> plug transformer into a <u>switched</u> outlet.
LOOSE WIRES	Red (+) and Black (-) Wires: Use with 12V (Model 1240) rechargeable gel cell. NOT for use with dry cell batteries. Do NOT attach anything else to these wires. This circuit is fuse protected against reverse battery. <u>NOTE:</u> The gel cell should be hooked up after system has been tested on A.C.
	<u>Violet Wire:</u> Negative arming voltage output. When using with Model 1034 zone expander, power the 1034 from terminals 18(+) & 28(-) and connect this violet wire to terminal 8 of the 1034.
	<u>Yellow Wire and Terminal 10:</u> N.O. Delay Loop. Wire U.L. Listed open circuit devices in parallel.
	<u>Yellow and White Wires:</u> Instant/Delay Switch. Use with U.L. Listed devices only. If these wires are connected, the delay loop will become an instant day loop.
GROUND LUG	Located in lower left hand corner of the P.C. board. (FIG.#1) This lug must be connected to electrical or cold water ground for lightning protection with at least 18ga. wire.

LEDS

- The AC LED is yellow and indicates presence of AC power.
- Bypass Red LED is lit when the day loop is bypassed by the switch.
- The Arming LED is red and operates the same as the remote status LED described for terminals 21 & 7.
- The loop LED is green and operates the same as the remote loop indicator described in TABLE 1.
- DS5 is red and lights whenever K4, the line seizure relay, is activated.

TABLE 1

Green LED Circuit: Remote loop indicator Jumper JP1 (FIG.#2) select following options.

JP1 IN "A" POSITION		JP1 IN "B" POSITION	
Unarmed	Armed		Unarmed
LED on indicates a violated loop.	LED on in alarm, goes out on cut-off.	LED off in alarm, stays off in cut-off.	LED off indicates a violated loop.

1290 A LISTED TO U.L. 985 AND 1023

A thoroughly dependable and easy to operate home burglar/fire alarm system; the control instrument uses a low voltage transformer and transfers to battery operation in the event of a power failure. This procedure is reversed when the A.C. power is restored.

Convenient remote control station Model #501L can be used to turn the burglary alarm "off" & "on". The master bedroom is usually a good place for this remote. Additional remotes may be added at any time, being certain not to exceed the maximum allowable current (150MA) available. The remote control station consists of red & green LED's & a key lock.

The system has built-in exit and entry delay to permit access to the home without activating the alarm.

A completely supervised fire alarm system may be used with this control instrument. The fire alarm system operates 24 hours a day. Any number of U.L. Listed thermostats may be used. There is also a provision for powering smoke detectors (Model 609-12) Separate terminals are provided for fire output so that the owner can distinguish between a burglary or fire alarm.

This control instrument is provided with a charging circuit for a rechargeable gel cell. The A.C. pilot light provides a continuous indication that the A.C. is on. If this light is out, check that the transformer is plugged in. In addition, this instrument is protected by a fuse.

A fire trouble remote is provided to notify the occupants that there is a problem with the fire alarm circuit. The audible trouble indicator will sound & may be silenced using the switch on the face of the remote (1276). The orange indicator will show on the trouble switch to indicate the switch is in the silent mode.

SOUNDING DEVICES: Model 671 (8 ohm 5 watt) speaker - (2 max.)

Battery capacity for emergency stand-by: Must be at least 4 hours at 500 MA load in stand-by. All wire used for installation must be listed.

Use 18 AWG wire for leads to sounding devices.

NOTE: This unit was made for installation by experienced alarm installers only. Max. normal load is 300 MA when using 40 VA. Outside remote must be tamperproof. Use listed switch in deep duplex box.

FIG. 1
WIRING DIAGRAM

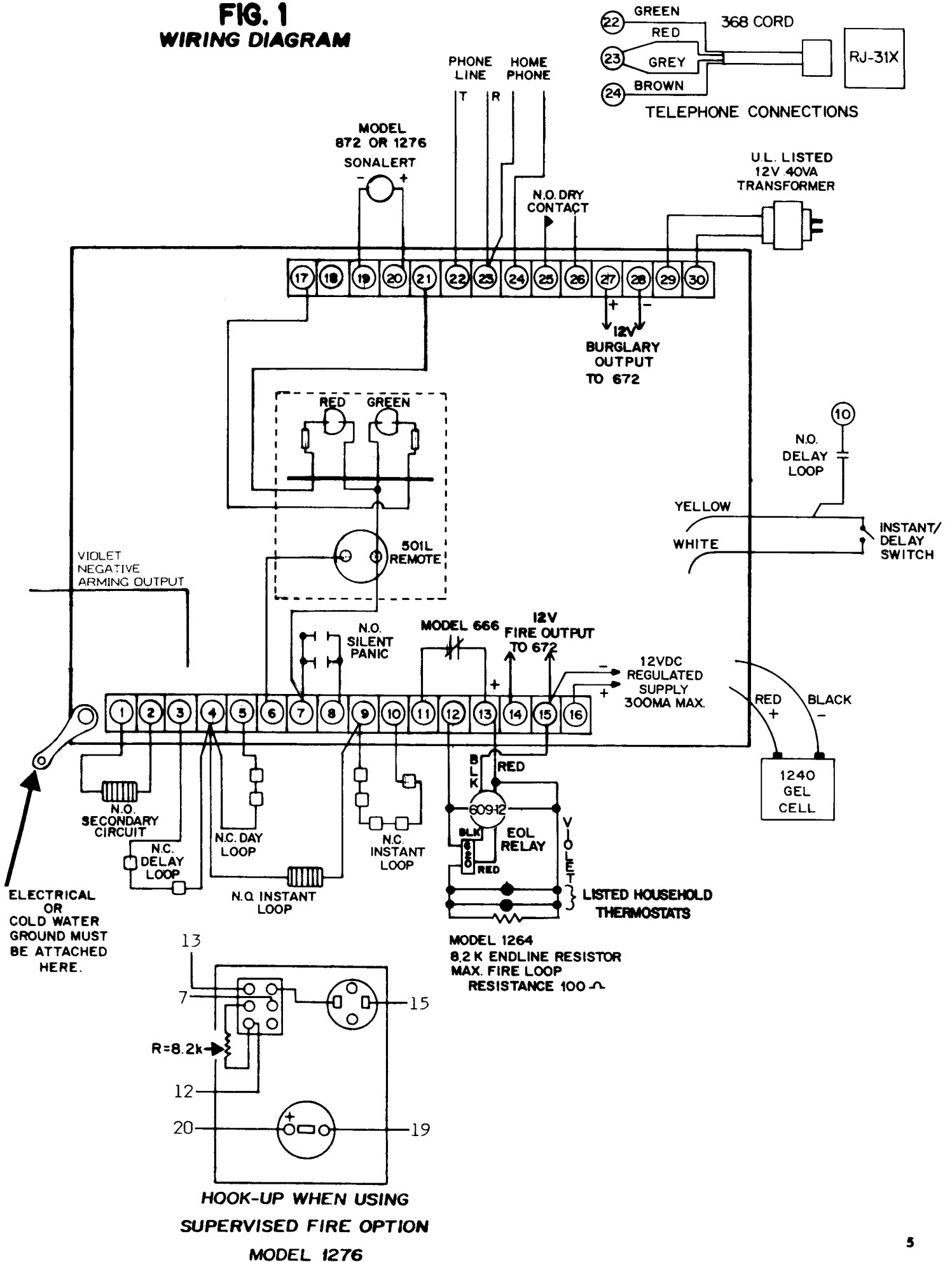


FIG. 2 BOARD LAYOUT

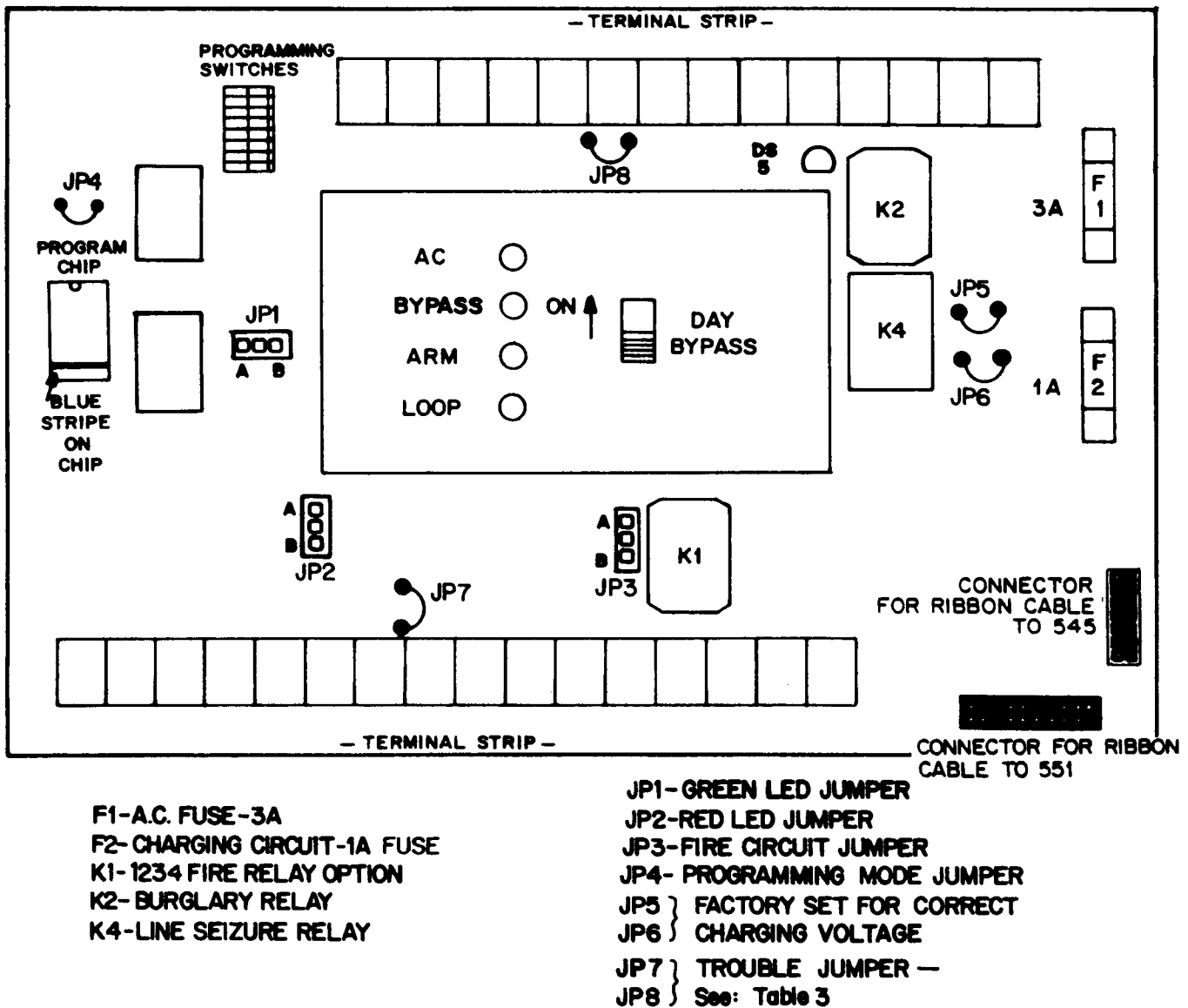
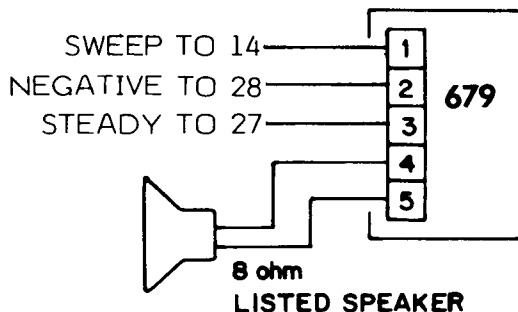
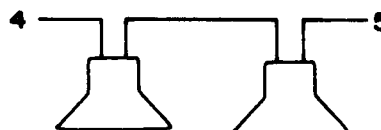


FIG. 3 679 SIREN DRIVER HOOK-UP

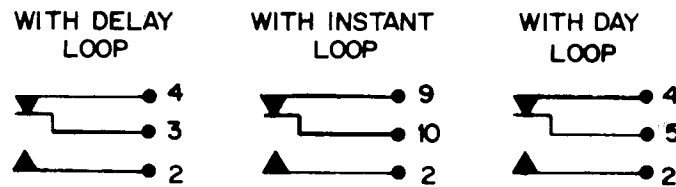


IF DESIRED, TWO SPEAKERS MAY BE USED BY WIRING THEM IN SERIES.



NOTE A: Form C contact hook-up for secondary circuit. Connect 1290A terminals to the Form C.

FIG. 4



CAUTION: With 1 Form C, use either delay loop connections or day loop connections, but not both at the same time.

This hook-up can only be used on the contact closest to the common terminal. See example below:

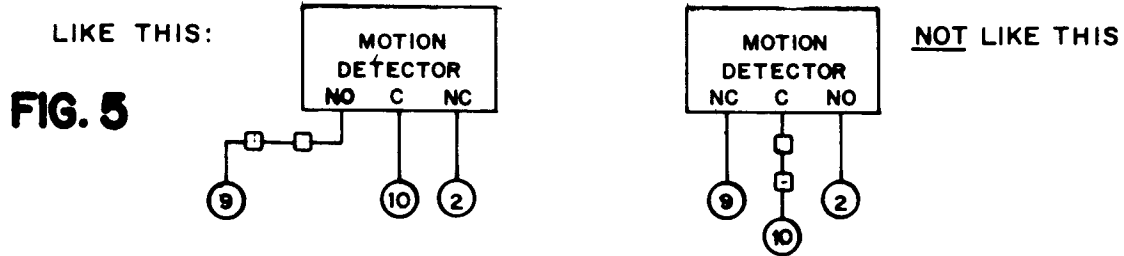
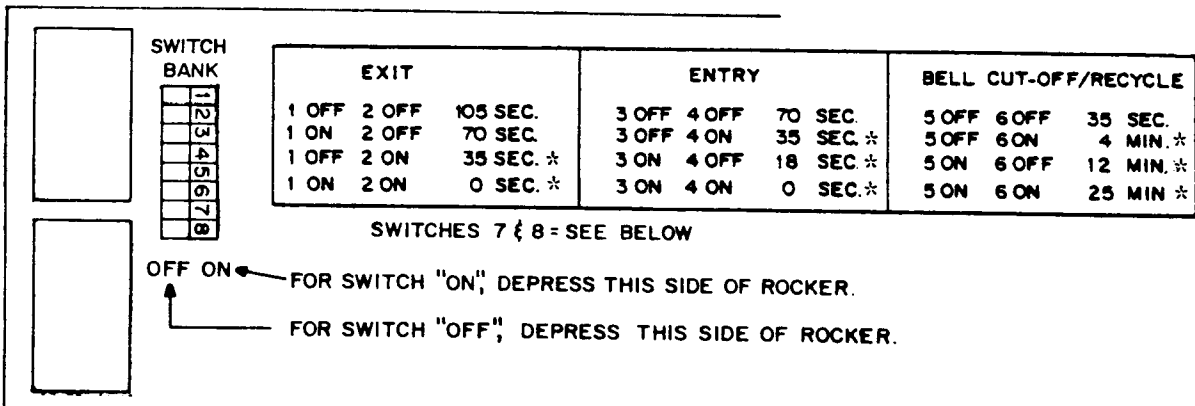


FIG. 6

NOTE B: Exit/Entry Delay and Bell Cut-Off Time Dip Switch Settings



* THESE TIMES TO KEEP PANEL WITHIN UL SPECIFICATIONS.

TABLE 2

DIGITAL COMMUNICATOR PROGRAMMING
 QUADRANT SELECTION
 WITH J4 JUMPER CUT

SWITCH	SWITCH	QUADRANT
8	7	
Off	Off	4
Off	On	3
On	Off	2
On	On	1

Depending on programming, the following conditions may activate the digital communicator in the 1290-A. They are listed in priority order.

FIRE
 PANIC
 BURGLARY
 PHASE 2 (activation of secondary circuit)
 FIRE TROUBLE
 RESTORE
 CLOSING
 OPENING

OPERATION, TESTING AND MAINTENANCE PROCEDURE

1. A/C pilot light should be on at all times; if it is out, check outlet and A/C power. DO NOT CONNECT TO A RECEPTACLE CONTROLLED BY A SWITCH.
2. Alarm - In the event of a fire alarm, the unit must be reset using the reset switch.
3. Alarm Silence - Unit may be silenced by holding reset switch in reset mode. If alarm continues after releasing switch, reinspect entire house for possible fire.
4. Trouble - A trouble condition will be sounded if there is a defect in the fire alarm system.
5. Trouble Silence - The audible signal may be silenced using the switch on the plate; in the silence mode, the orange indicator on the trouble switch will be showing (Model 1276).
6. Off - Normal position of switches - described in #5, orange indicator on the trouble indicator will be showing.
7. LED and Fuse Replacement - Only exact replacement LED's should be used; consult your installing company.
8. Battery Maintenance and Replacement - The battery used with this unit does not require any regular maintenance under normal conditions. It will last for 3 years. Should replacement be necessary, only an exact replacement should be used. Your installing company has these in stock.
9. Use this space to fill in the installing company name, address and phone number:
10. Maintenance Recommendations - This control unit was manufactured under rigid quality standards and the system complies with all U.L. requirements for its intended use. Maintenance is best performed by your installing company with trained service personnel. Call them when your alarm system needs servicing. This unit is intended to be installed in accordance with the requirements of N.F.P.A. Standard #74 and the local authorities having jurisdiction.

NOTIFICATION PROCEDURES: Upon completion of alarm installation, notify the local fire authorities and request their procedure for notification.

ADDITIONAL NOTES:

The National Fire Protection Association publishes a standard for household fire warning equipment, NFPA #74; their address is: Batterymarch Park, Quincy, Mass. 02269

Testing of the system should be performed once a week in both the A.C. on and stand-by battery modes. Your neighbors' cooperation and understanding is important. They play a very important role when you are away. Advise them that you do have a system and to notify the proper authorities should they hear your alarm system sounding.

Before connection, the Telephone Company shall be requested to install a USOC RJ31X jack on the particular line. Give the Telephone Company the FCC Registration (AE398E-70112-AL-R) and the Ringer Equivalence (0.0B) numbers for the 1290-A. Connect the 1290-A to an approved modular plug (Certified Part #368) as shown, to mate with the RJ31X jack (FIG.#1)

Should the 1290-A 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 1290-A 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 1290-A may not be connected to party lines or coin lines. If trouble is experienced, the 1290-A shall be disconnected from the phone line, by means of the plug shown in Fig. 1, to determine if the 1290-A is malfunctioning. If the 1290-A is malfunctioning, do not reconnect until the problem has been corrected.

TABLE 3

A feature has been added to the 1290A to give you Day Trouble transmission when the loop is opened or when the Day Bypass switch has been bypassed. The code transmitted will be the Fire Trouble code that is programmed with the 110 programmer. Listed below are the positions of the jumpers used for this application - JP7 and JP8.

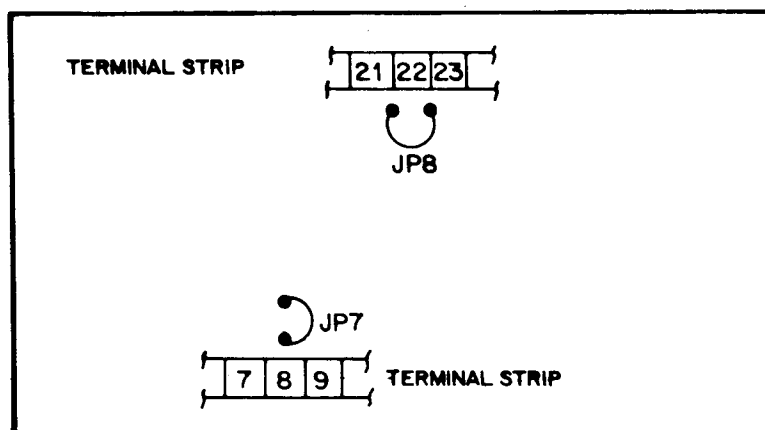
JP7	JP8	Function	Description Sonalert	Dialer
Cut (as Shipped)	Cut or Connected	Fire Loop Open	Pulse	Transmission
		Day Loop Open	Steady	Off
		Day Loop Switch Bypassed	Off	Off
Connected NOTE C:	Connected	Fire Loop Open	Pulse	Transmission
		Day Loop Open	Pulse	Transmission
		Day Loop Switch Bypassed	Off	Transmission
Connected	Cut	Fire Loop Open	Pulse	Transmission
		Day Loop Open	Pulse	Transmission
		Day Loop Switch Bypassed	Pulse	Transmission

A pulsing Sonalert will override a steady Sonalert as used in the Entry Delay mode.

NOTE C: If you are not using the Day circuit, you may use the Day Bypass switch as a Fire Trouble remote. The Bypass light will then indicate that the Fire Loop is open and silence the Sonalert.

1290A BOARD ILLUSTRATING LOCATION OF JUMPERS JP7 & JP8

FIG. 7



The 1290-A contains a built-in Digital Dialer which uses a program chip. The chip is divided up into 4 Quadrants. The 1290-A uses 2 Quadrants at a time in Mode A. If Mode A is not desired, then switch 7 is left on. This limits the user to Quadrants 1 and 3 only. If four Quadrant operation is desired, cut Jumper J4.

PROGRAMMING

I. MODE A

- A) Jumper J4 must be connected
- B) Quadrant Selection

TABLE 4

SWITCH 7	SWITCH 8	QUADRANTS
Off	On	1 & 2
Off	Off	3 & 4

C) In this condition, two quadrants of the prom are used. Quadrant 1 (or 3) would be the high priority codes - Fire, Burglary, Panic, Phase 2, Fire Trouble and Restore for fire, panic and burglary on recycle. Quadrant 2 (or 4) would transmit the low priority codes of Fire Trouble, Open/Close, Restore on panic, Fire and Burglary on disarming.

It is possible in this condition to transmit the high priority codes into one receiver and the low priority into another. Therefore, each quadrant should be programmed separately with the proper information for that particular quadrant.

D) Restores may come through either Quadrant as follows:

1. Burglary restore, when programmed, will be high priority when it originates from loop restoral, but low priority if it occurs because the system is disarmed. If opening and closing signals are used, then burglary should have no restore programmed in the low priority Quadrant (2 or 4). Opening codes should be programmed in these Quadrants.

2. If more than one of fire, panic and burglary channels programmed for restore have been activated, then restore will not be sent until all are restored.

3. If a burglary loop has been violated, all restores will be on the high priority Quadrant until the system is disarmed, except for a burglary restore due to the disarming itself. If programmed for a burglary restore, use the low priority Quadrant.

II. Single Quadrant Operation (Prom can be programmed four times)

- A) Cut Jumper J4
- B) Quadrant Selection

TABLE 5

SW 7	SW 8	QUADRANT
Off	Off	4
On	Off	3
Off	On	2
On	On	1

III. Operating the 110 Programmer

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 the desired positions.

TABLE 6

MODE SWITCH	QUADRANT SW 8	QUADRANT SW 7	QUADRANT SELECTED
North	South	South	1
North	South	North	2
North	North	South	3
North	North	North	4

(IN STEPS 3-6, ENTERING THE LETTER "C" ANYWHERE IN OR BEFORE THE PHONE NUMBER IS EQUIVALENT TO A 3 SECOND DELAY).

3. Press Enter switch, then 0. 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 is needed. If no number is needed, leave this field blank.
4. 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. If extra time is needed between digits, key in the letter C between those digits.

-Information must be entered in this field-

5. 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.
6. 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.
7. 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.

TABLE 7

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	A	Unlimited	F
5	5	11	B		
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 reach before it shuts down. Select as follows:

Any one receiver - 0
All receivers - F

8. 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:

TABLE 8

RECEIVER TYPE	USE DIGIT
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-

9. Press Enter, then 9. AC should appear on the LED display. Key in a 3 or 4 digit account code. Only numbers may be entered, not letters. 4 digit account numbers can only be used with receivers capable of handling it.

-Information must be entered in this field-

10. Press Enter, then 9. AL should appear on the LED display. Key in codes for the following alarms. (If no transmission is desired on any particular alarm, key an "F" in that position).

- I. FIRE
- II. SILENT PANIC
- III. BURGLARY
- IV. PHASE 2 - Code Transmitted on Activation of Secondary Circuit
- V. FIRE TROUBLE
- VI. RESTORE - May be Selected for Burglary, Fire and/or Silent Panic
- VII. CLOSING
- VIII. OPENING
- IX. RESTORE SELECT - Burglary (Note 1)
- X. RESTORE SELECT - Silent Panic (Note 1,2) 0 = RESTORE
- XI. RESTORE SELECT - Fire (Note 1) F = NO RESTORE

See page 15 for single quadrant operation or page 16 for dual quadrant operation.

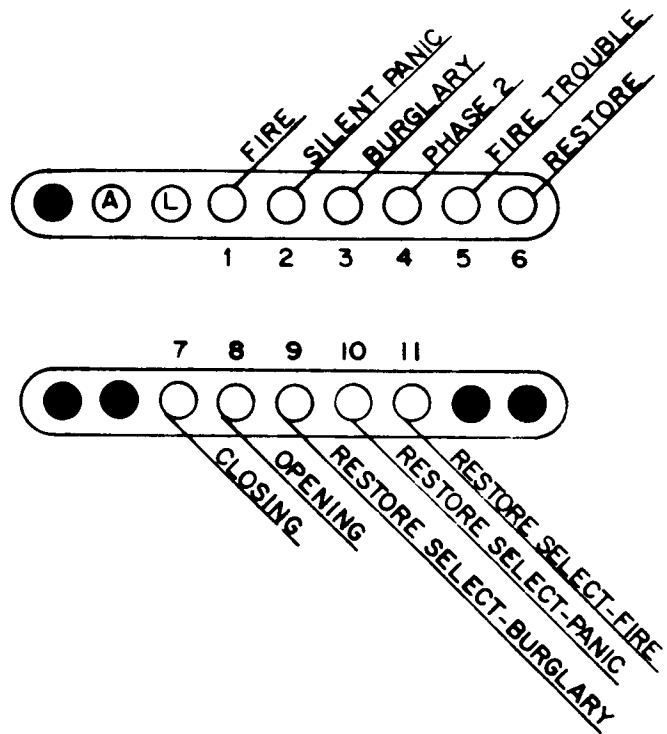
11. CHECK THE DATA. All information has now been entered into the fields. By pressing Enter, then 9, the information, (which is now in memory), can be checked and corrected if necessary. If a field must be changed or corrected, go to that field, press Enter, then the corresponding field number. The correct information may now be keyed in.
12. If all data is correct, a blank prom can now be inserted and "burned" by pressing the program button 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 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.

NOTES:

- 1. A restore code may be selected for burglary, fire and/or silent panic by keying the proper digit into Positions IX, X and XI. Key in "0" for restore, "F" for no restore. Restore code will not be sent until all alarms programmed for restore have been restored.
- 2. If momentary panic buttons are to be used, an "F" must be keyed into Position X. If locking panic buttons are used, key in a "0" in Position X. Transmission will abort when the button is unlocked.
- 3. The burglary code will be transmitted when any of the loops are violated. If the loops are restored before the bell recycles and restore is selected, the restore code will be sent at bell shut down. If the loops are left open and the unit goes into cut-off, the restore signal will only be sent after the loops are restored.
- 4. The fire code transmission will continue to completion if the fire signal is maintained. When the signal is restored, the restore code will be sent, if so programmed.
- 5. A fire trouble transmission will continue only as long as the trouble signal is maintained or to completion. There is no restore option and the transmission aborts when the signal is restored.

FIG. 8

SINGLE QUADRANT OPERATION
DISPLAY WINDOW ON MODEL 110 PROGRAMMER

**TABLE 9**

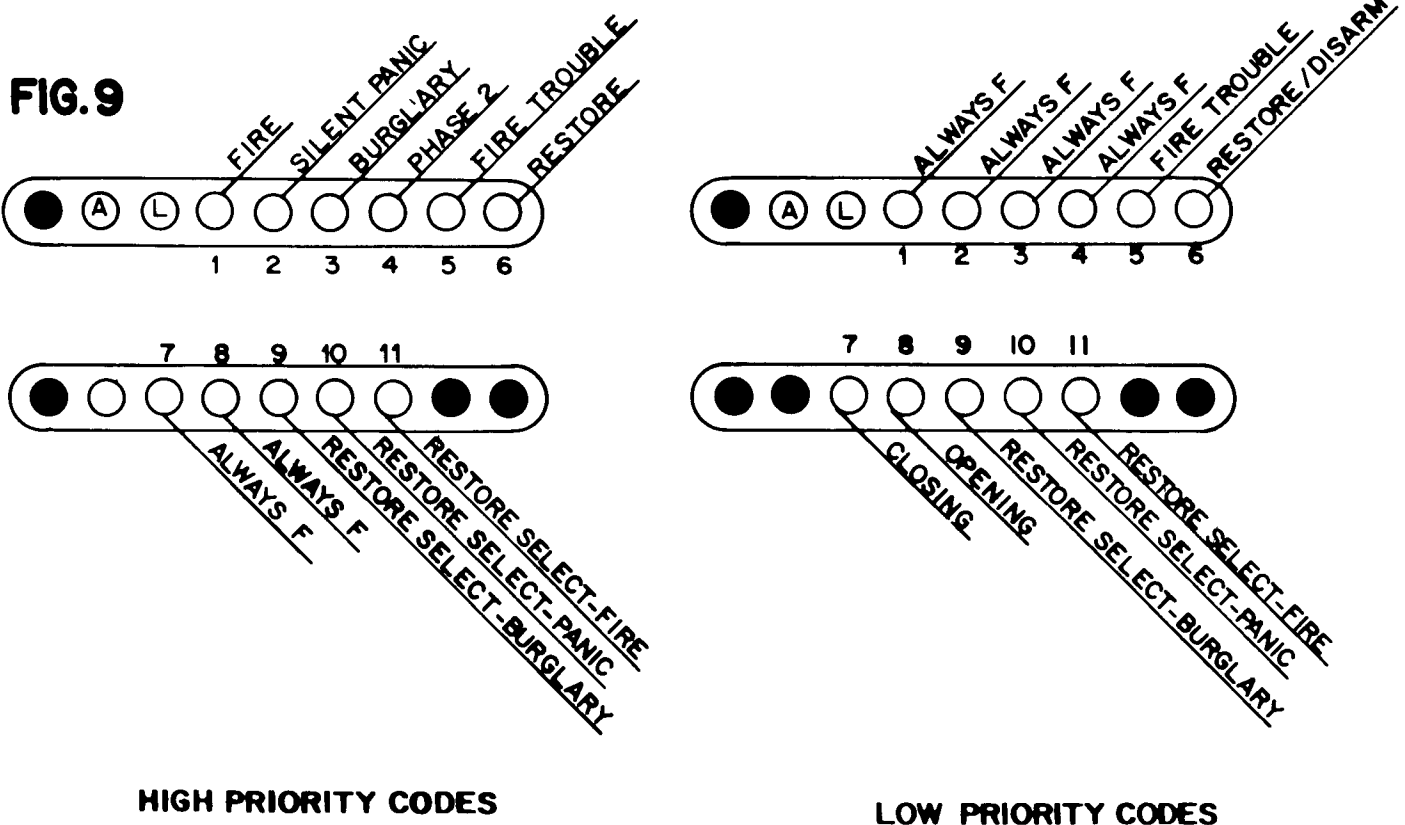
QUADRANT		
ROW	DESCRIPTION	CODE
1	FIRE	0-9 or F
2	SILENT PANIC	0-9 or F
3	BURGLARY	0-9 or F
4	PHASE 2	0-9 or F
5	FIRE TROUBLE	0-9 or F
6	RESTORE	0-9, F or E
7	CLOSING	0-9, F or C
8	OPENING	0-9, F or B
9	RESTORE SELECT BURGLARY	0 or F
10	RESTORE SELECT PANIC	0 or F
11	RESTORE SELECT FIRE	0 or F

TABLE 10

QUADRANT 1 (or 3)			QUADRANT 2 (or 4)	
ROW	DESCRIPTION	CODE	DESCRIPTION	CODE
1	FIRE	0-9 or F	ALWAYS F	F
2	PANIC	0-9 or F	ALWAYS F	F
3	BURGLARY	0-9 or F	ALWAYS F	F
4	PHASE 2	0-9 or F	ALWAYS F	F
5	FIRE TROUBLE	0-9 or F	FIRE TROUBLE	0-9 or F
6	RESTORE	0-9 or F or E	RESTORE-DISARM	0-9 or F or E
7	ALWAYS F	F	CLOSING	0-9 or F or C
8	ALWAYS F	F	OPENING	0-9 or F or B
9	RESTORE/SELECT BURGLARY	0 or F	RESTORE/SELECT BURGLARY	0 or F
10	RESTORE/SELECT PANIC	0 or F	RESTORE/SELECT PANIC	0 or F
11	RESTORE/SELECT FIRE	0 or F	RESTORE/SELECT FIRE	0 or F

If restore is selected for panic or fire, it will always be transmitted from quadrant 1 (or 3). If restore is selected for burglary, it will be transmitted from quadrant 1 (or 3) on recycle. On disarming, the restore code will be transmitted from quadrant 2 (or 4). Therefore, the restore code being transmitted on burglary will show whether the system was either automatically or manually reset.

DUAL QUADRANT OPERATION
DISPLAY WINDOW ON MODEL 110 PROGRAMMER



THE TABLES BELOW CAN BE
USED FOR **SINGLE** OR **DUAL**
QUADRANT OPERATION

OP, 1P, 2P, +3P FIELDS

KEY IN C WHERE A 3 SECOND
TIME DELAY IS NEEDED.

AF FIELD

NO. OF ATTEMPTS	USE DIGIT	ACKNOWLEDGMENTS
1-9	1-9	0-ANY ONE RECEIVER
10	A	
11	B	
12	C	
13	D	
14	E	F-ALL RECEIVERS
Unlimited	F	

FF FIELD

KEY IN ONE DIGIT FOR EACH PHONE NO.	
RECEIVER	DIGIT
Franklin	1
DCI	1
Sescoa	1
Radionics (2300)	1
Radionics (1400)	3
Adcor CDR 50	3
Ademco w/o kiss off	4
Ademco with kiss off	5
Silent Knight w/o kiss off	6
Silent Knight with kiss off	7

AL FIELD

NOTE: For English Language
Printout of Codes use:

B	-	Opening
C	-	Closing
E	-	Restore

PROGRAMMING WORK SHEET

SINGLE QUADRANT OPERATION

CIRCLE QUADRANT USED:
1 2 3 or 4

1-COMMON PHONE PREFIX

O P []

2-FIRST PHONE NUMBER

1 P []

3-SECOND PHONE NUMBER

2 P []

4-THIRD PHONE NUMBER

3 P []

5-NUMBER OF ATTEMPTS AND ACKNOWLEDGMENTS

ATTEMPTS
ACKNOWLEDGMENTS
A F []

6-RECEIVER TYPE

FIRST RECEIVER
SECOND RECEIVER
THIRD RECEIVER
F F []

7-ACCOUNT CODE

A C []

8-ALARM
CODES

A L []
FIRE SILENT PANIC BURGLARY PHASE 2 FIRE TROUBLE RESTORE CLOSING OPENING RESTORE SELECT-BURGLARY RESTORE SELECT-PANIC RESTORE SELECT-FIRE

PROGRAMMING WORKSHEET

DUAL QUADRANT OPERATION

HIGH PRIORITY CODES

CIRCLE QUADRANT USED:
1 or 3

1-COMMON PHONE PREFIX

[illegible]

2-FIRST PHONE NUMBER

[illegible]

3-SECOND PHONE NUMBER

[illegible]

4-THIRD PHONE NUMBER

3	P									
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5-NUMBER OF ATTEMPTS AND ACKNOWLEDGMENTS

The diagram shows a large rectangle divided into three horizontal sections. The top section is labeled 'ATTEMPTS', the middle section is labeled 'ACKNOWLEDGMENTS', and the bottom section is unlabeled. To the left of this rectangle, there is a smaller rectangle divided into four squares. The first square contains the letter 'A' and the second square contains the letter 'F'. The third and fourth squares are empty. Lines connect the 'A' square to the 'ATTEMPTS' section, the 'F' square to the 'ACKNOWLEDGMENTS' section, and the empty third square to the unlabeled bottom section.

6-RECEIVER TYPE

Diagram illustrating a bus system with three receivers (FIRST RECEIVER, SECOND RECEIVER, THIRD RECEIVER) connected to a bus. The bus contains four data cells, with the first two cells containing the letter 'F'.

7-ACCOUNT CODE

A	C				
---	---	--	--	--	--

8-ALARM CODES

8-ALARM CODES		FIRE	SILENT PANIC	BURGLARY	PHASE 2	FIRE TROUBLE	RESTORE	ALWAYS F	ALWAYS F	RESTORE SELECT	RESTORE SELECT	RESTORE SELECT
A	L						T	T				

LOW PRIORITY CODES

CIRCLE QUADRANT USED:
2 or 4

1-COMMON PHONE PREFIX

[illegible]

2-FIRST PHONE NUMBER

[illegible]

3-SECOND PHONE NUMBER

[illegible]

4-THIRD PHONE NUMBER

[illegible]

5-NUMBER OF ATTEMPTS AND ACKNOWLEDGMENTS:

		ATTEMPTS		ACKNOWLEDGMENTS	
A	F				

6-RECEIVER TYPE

Diagram illustrating a 3-to-1 multiplexer configuration. The inputs are labeled FIRST RECEIVER, SECOND RECEIVER, and THIRD RECEIVER. The output is a 4-bit bus, with the first two bits labeled FF.

7-ACCOUNT CODE

A	C				
---	---	--	--	--	--

8-ALARM CODES

A	L	T	T	T	T							
		ALWAYS F	ALWAYS F	ALWAYS F	ALWAYS F	FIRE TROUBLE	RESTORE/DISARM	CLOSING	OPENING	RESTORE SELECT	RESTORE SELECT	RESTORE SELECT