

# Fire Burglary Instruments, Inc.

50 Engineers Road, Hauppauge, New York 11787

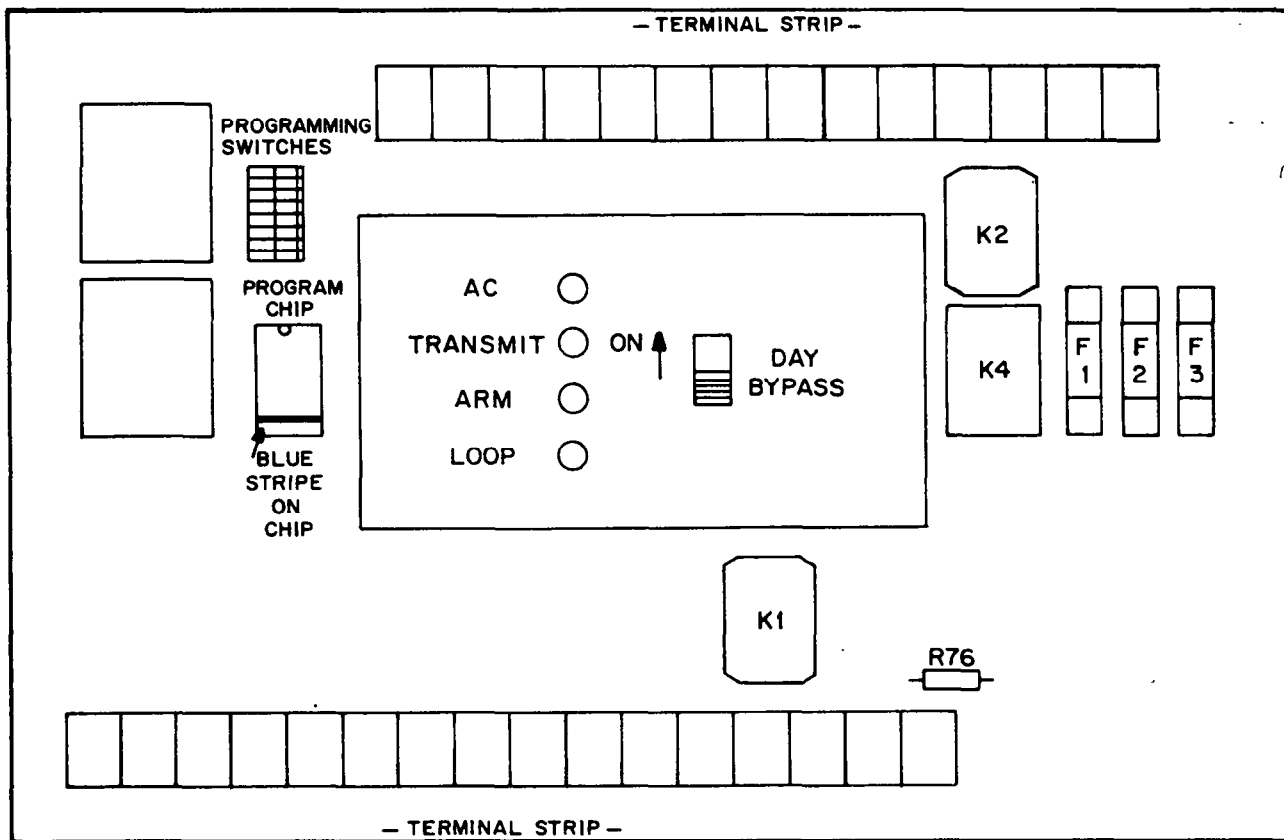


# INSTALLATION INSTRUCTIONS

Remember... "We do what they don't"

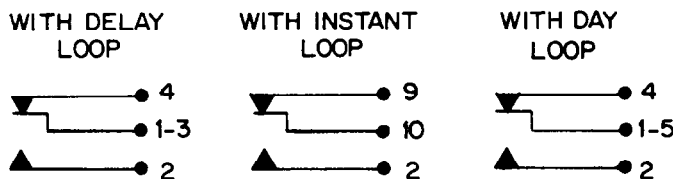
TERMINALS	DESCRIPTIONS
1 & 2	Secondary Circuit: Open circuit devices wired in parallel. This circuit is only active when control is in bell cut-off. Use for interior protection. See Note "A" for hook-up in conjunction with primary protection.
3 & 4	Delay Loop: Closed circuit devices wired in series. 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: 2 K ohm. See NOTE "B" for setup of timing switches.
4 & 5	Day Loop: Closed circuit 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: 2 K ohm.
6 & 7	Keyswitch: A momentary closure across these terminals will cause the panel to arm or disarm. Use 501L, 502L, 541 & 540D, 545 or 551 & 550.
7 & 8	Silent Panic: Open circuit devices wired in parallel. (Requires the use of the 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 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: 2 K ohm.
4 & 9	N.O. Instant Loop: Open circuit devices wired in parallel.
11 & 13	Remote Fire Reset: Wire a normally closed push button (#666) to these terminals. Opening this circuit will cause the fire circuit, fire horn and smoke detectors to reset and will activate a fire trouble transmission.
13 & 15	Smoke Detector Output: Continuous voltage for powering smoke detectors; active only when using fire reset station between terminals 11 & 13.
12 & 13	Supervised Fire Circuit: When fire circuit is used, cut R76 & remove jumper from 11 to 13. Open circuit devices wired in parallel. Use with 8.2k ohm endline resistor. Loop is active only when fire option #1233 is used. A closure on these terminals will cause a voltage to appear on terminals 14(+) and 15(-). NOTE: When using a buzzer type fire horn, a .47 MF capacitor must be placed across the horn.
15 & 16	12 Volt Regulated Power Supply: 16(+), 15(-). 12V regulated output for powering motion detectors, digital keys and other sensitive equipment. Output capability is 300 MA, less than 100 MV P-P ripple.
18 & 28	12 Volt Unregulated Power Supply: 18(+), 28 (-). Maximum current available is: 1.5 amp (this supply is also used for burglary bell and fire horn).
17 & 7	Green L.E.D. Circuit: Remote loop indicator. L.E.D. on indicates loop open. When system is armed and loop has opened and been restored, L.E.D. will remain on until bell time out. Do not use incandescent remotes. 7(+), 17(-).
21 & 7	Red L.E.D. Circuit: Remote armed status indicator. L.E.D. on indicates system is armed. Do not use incandescent remotes. 7(+), 21(-).
19 & 20	Sonalert Output: Early warning indication for entry exit circuit. Sonalert will also indicate an open on the day loop (disarmed), and will pulse if the fire loop is broken. 19(-), 20(+).
22, 23 & 24	Phone Line Connection: Connect tip to 22 and ring to 23. Home phone is connected to 23 and 24.

25 & 26	Spare Contact: Normally open contact closes on burglary alarm. Contacts are rated at: 5A at 30V.
27 & 28	Burglary Bell Output: Unregulated 12 volts D.C. for powering bell or siren. 27 (+), 28 (-).
29 & 30	A.C. Input: Use 12 V 40VA transformer provided. Wire with 16 ga. wire. Do not plug transformer into a switched outlet.
Loose Wires	Red & Black: 12V rechargeable gel cell. DO NOT ATTACH ANYTHING ELSE TO THESE WIRES. Red (+) & Black (-). NOTE: The gel cell should be hooked up after system has been tested on A.C.
Yellow Wire & 10	N.O. Delay Loop: Open circuit devices wired in parallel.
Yellow & White Wire	Instant/Delay Switch: Open-delay, closed-instant.
Grounding Lug	Located in the lower left hand corner of the P.C. board. This lug must be attached to electrical or cold water ground (see diagram).



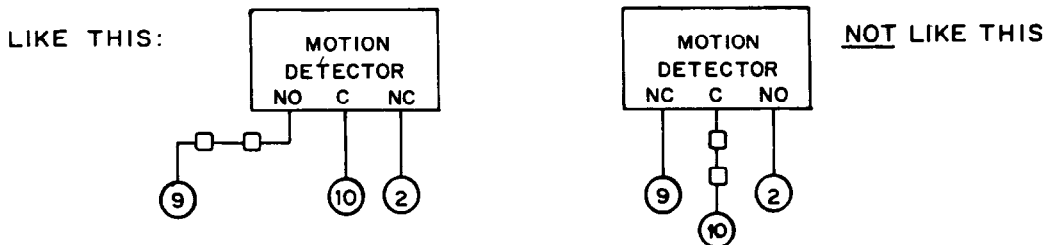
- F1 - 12V REGULATED SUPPLY- 1/2A
- F2- A.C. FUSE-3A
- F3- CHARGING CIRCUIT- 1A
- K1- 1233 FIRE RELAY OPTION
- K2- BURGLARY RELAY
- K4- LINE SEIZURE RELAY

**NOTE A:** Form C contact hook-up for secondary circuit. Connect 1290 terminals to the Form C. Jump terminal 1 to 3 or terminal 1 to 5 as shown.

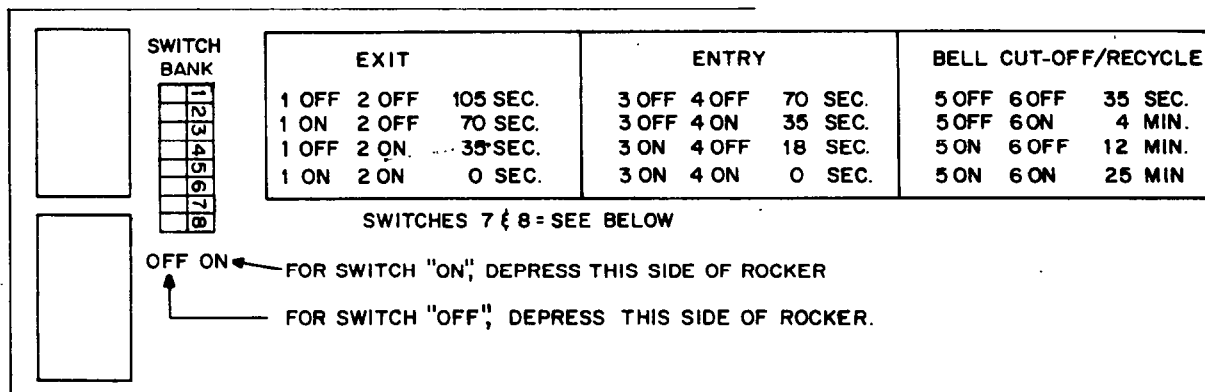


**CAUTION:** With 1 Form C, use either delay loop connections or day loop connections, but not both at the same time.

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



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



The 1290 contains a built-in digital dialer which uses a program chip. This chip is broken up into 4 quadrants which can be programmed independently. This gives the user the capability of putting up to 4 programs on one chip. The chips can be programmed by the factory or in the field with the 110 programmer. Each quadrant of the chip is capable of dialing up to 3 numbers and working with almost any receiver. Up to eight different alarm codes can be programmed onto a given quadrant. Switches 7 & 8 determine which quadrant of the chip is used. (See Truth Table.)

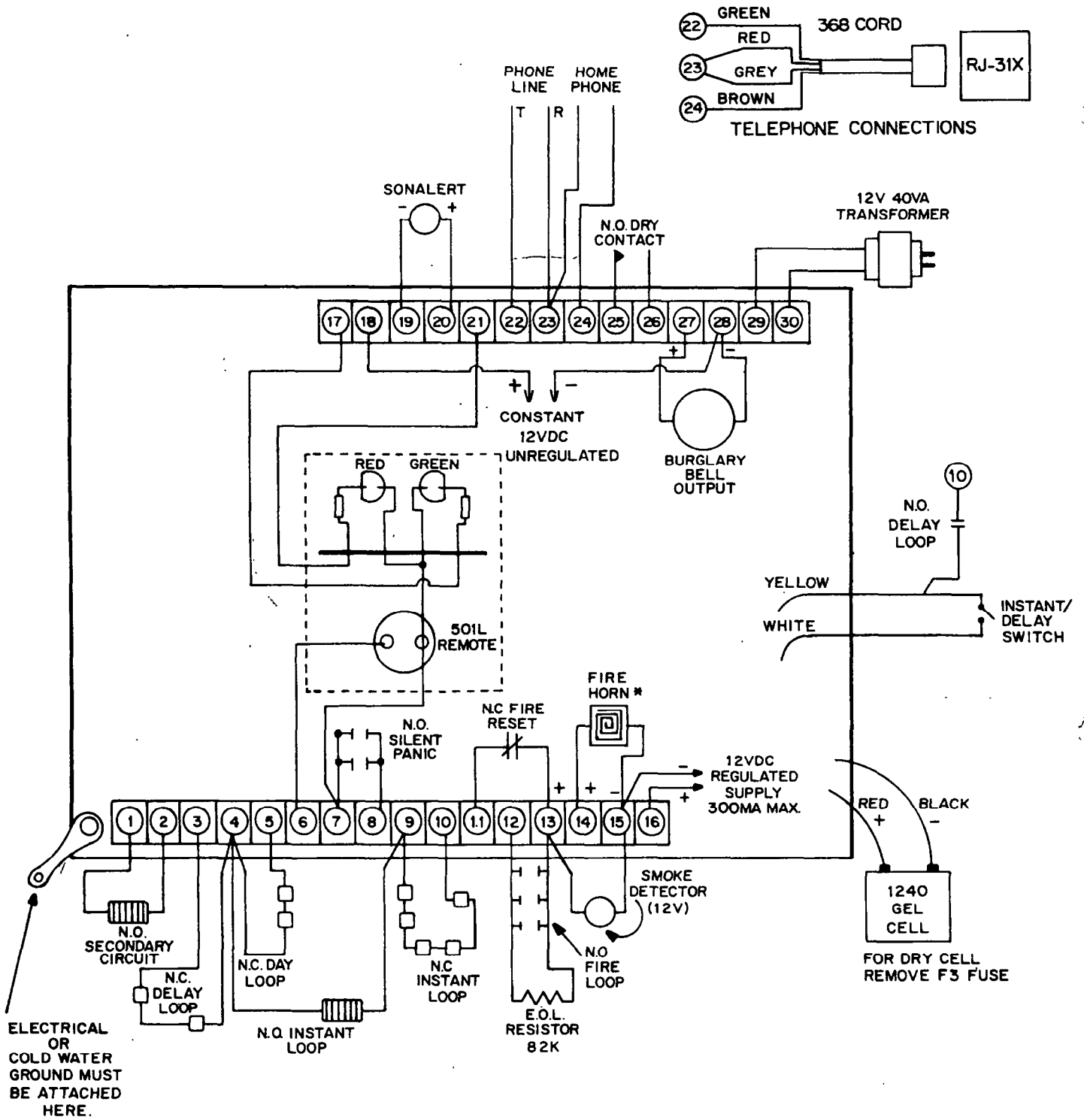
**TRUTH TABLE**

Switch 7	Switch 8	Quadrant
Off	Off	4
On	Off	3
Off	On	2
On	On	1

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

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

**NOTE:** Program chips made at the factory will be programmed on quadrant 1, unless otherwise specified. See the 110 Manual for instructions on programming the memory chip for the 1290.



\* NOTE: When a buzzer type fire horn is used, a .47mf capacitor must be placed across the horn (not at panel).

When fire circuit is used, cut R76 and remove jumper from 11 to 13.

The panel will not arm when green L.E.D. is on (loop open).

**IMPORTANT:** Any external relays wired onto panel MUST have a diode across coil.

