

# Fire Burglary Instruments, Inc.

50 Engineers Road, Hauppauge, New York 11788

LISTED TO UL 365 AND 609



## INSTALLATION INSTRUCTIONS

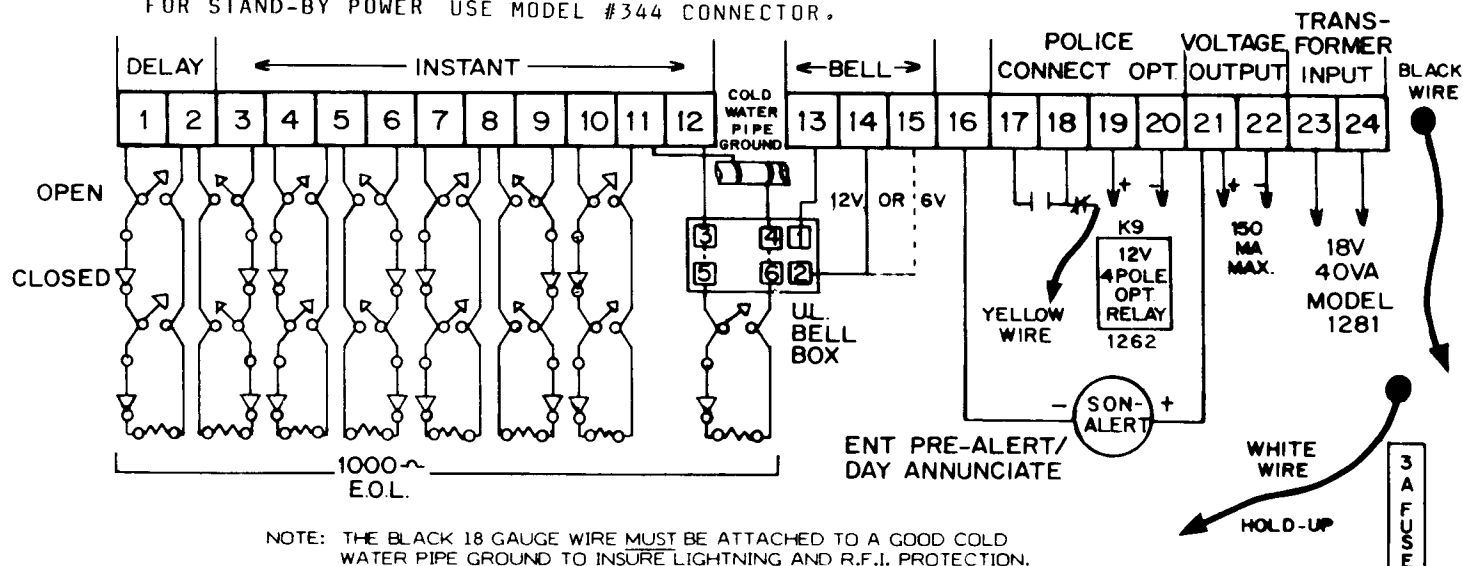
(516) 582-6161 800-645-5430

TERMINALS	DESCRIPTIONS
1 & 2	ZONE 1: Closed protective delay loop-use 1k EOL resistor supplied. NOTE B
2 & 3	ZONE 2: Closed protective instant loop-use 1k EOL resistor supplied. NOTE B
4 & 5	ZONE 3: Closed protective instant loop-use 1k EOL resistor supplied. NOTE B
5 & 6	ZONE 4: Closed protective instant loop-use 1k EOL resistor supplied. NOTE B
7 & 8	ZONE 5: Closed protective instant loop-use 1k EOL resistor supplied. NOTE B
8 & 9	ZONE 6: Closed protective instant loop-use 1k EOL resistor supplied. NOTE B
10 & 11	ZONE 7: Closed protective instant loop-use 1k EOL resistor supplied. NOTE B
11 & 12	ZONE 8: Closed protective instant loop-use 1k EOL resistor supplied. NOTE B
13 & 14	12 volt bell output: 13 (-), 14 (+). Note A: .750 AMP max. load.
13 & 15	6 volt bell output: 13 (-), 15 (+). Note A: .750 AMP max. load.
16 & 21	Sonalert output: 21 (+), 16 (-). Use model 515 or 872. To be used for early warning on entrance delay and day circuit annunciation when switches 1-8 are switched on. See Note D on page 2.
17, 18 & Yellow Wire	Form C contact output from police connect relay K9, (option 1262), 3A @ 30V (contact rating). 17-N.O., 18 Common, Yellow-N.C.
19 & 20	Police connect output: Active when 12V 4pole relay K9, (option 1262), is used. 19(+), 20(-). Max. load is 10mA.
21 & 22	12 volt constant output for powering external devices. 21(+), 22(-). 150mA max.
23 & 24	Transformer input 18V 40 VA, Model 1281. The 1040 has a regulated power supply with 1.5 AMP output. Use only with 24 hour power outlet.
Hanging Wires	RED: 12V battery (+). BLACK: 12 V battery (-). (12V 4 AH. Model 1240 (Note C)) WHITE: For silent hold-up, a locking button must be wired between the white wire and Terminal 22 when using optional police connect relay.

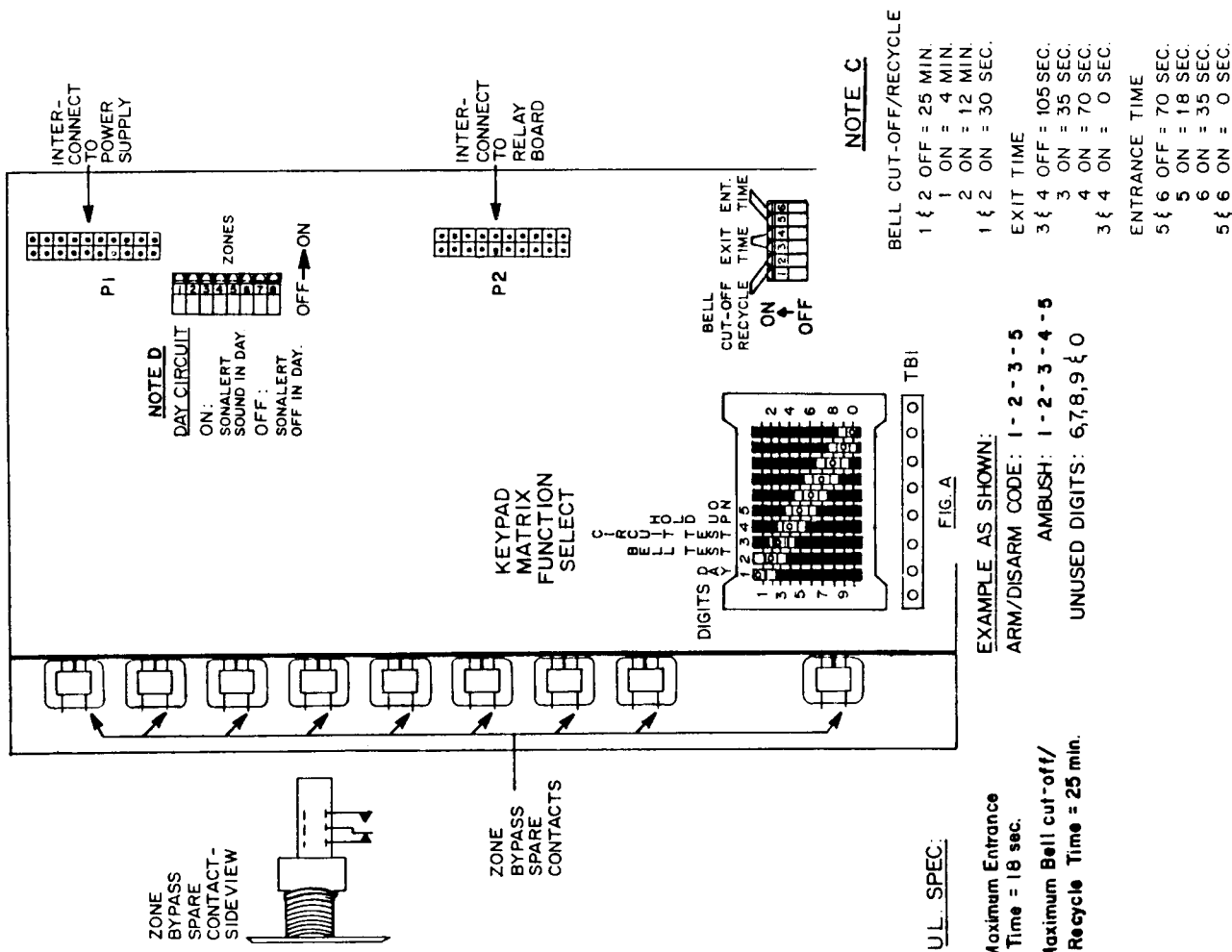
NOTE A: USE EITHER 6V OR 12V BELL, NOT BOTH, WIRED WITH 16 AWG WIRE.

NOTE B: MAX. LOOP RESISTANCE: 400 OHMS: MINIMUM SHUNTING RESISTANCE ACROSS 1k E.O.L. RESISTOR WITHOUT TRIPPING LOOP: 3000 OHMS. ALL ZONES CAN BE USED WITH OPEN OR CLOSED DEVICES. DO NOT USE WIRE WITH A GAUGE HIGHER THAN NO. 22 AWG ON TERMINALS 1-12.

NOTE C: WHEN USED AS A LOCAL ALARM TWO 4 A.H. BATTERIES CONNECTED IN PARALLEL ARE REQUIRED. FOR STAND-BY POWER USE MODEL #344 CONNECTOR.



Installation of equipment and wiring methods shall be accomplished in accordance with the National Electrical code and ANSI/NFPA NO. 70



Recycle Time = 25 min.

UNUSED DIGITS: 6,7,8,9 & 0

516 ON = 0 SEC.  
ON = 0 SEC.

2 ON = 12 MIN.  
1 & 2 ON = 30 SEC.

3 4 ON = 0 SEC.

516 ON = 0 SEC.  
ON = 0 SEC.

## OPERATION, TESTING, AND MAINTENANCE PROCEDURE

### OPERATION

1. Select four digit code to be used. No number may be used more than once.  
DO NOT USE \* OR #.
2. The code should be set on the matrix as shown in Fig. A. Use any pointed object, such as a pen, to move the slide switches on the matrix to the desired positions. The code will be set on the 5 columns from the extreme left, with that column being the first digit.
3. If ambush is desired, any digit not already used may be set in the 4th column from the left.
4. The unused columns and rows must be set with the unused digits. No number may be used twice.
5. The normal arm/disarm code is as follows:  
1st, 2nd, 3rd, and 5th digits. The ambush code is: 1st, 2nd, 3rd, 4th, and 5th digits. The 4th digit will activate the police connect relay K9 (option 1262). The 5th digit will arm or disarm the panel.
6. Secure all loops with 1k E.O.L. resistor.
7. Bypass switches in out position (orange not showing on front of switch), for zones being used. All others should be in bypass position, (orange showing on front of switch).
8. Connect bell, sonalert, etc. to panel.
9. Connect transformer and battery to panel.
10. Press first digit, then second digit (bell should ring); third digit (all L.E.D.'s should be out), then fifth digit (red L.E.D. should come on); unit is now armed.
11. If any zone is now violated, the red L.E.D. should come on and bell should ring for the desired time set with bell cut-off/recycle switches. See NOTE C on page 2.
12. To shut off L.E.D. and sonalert after bell has shut down: restore violated zone, disarm unit, then press reset button. Unit can now be armed.
13. Unit will not arm if loop is open.
14. Exit/entrance time can be set by using switches on main board. See NOTE C on page 2.
15. Day Circuit: See NOTE D on page 2.
16. Connect cover tamper switch in series with an unbypassed zone loop.

### Testing:

17. A/C pilot light (Yellow L.E.D.) should be on at all times; if it is out;  
a.) check 3 amp fuse on 1040 panel, b.) check output of model 1281 transformer, c.) check output of A/C receptacle. Do not connect to a receptacle controlled by a switch.
18. Testing of the system is normally performed (in both the A.C. on and stand-by battery modes) each time the panel is armed. This includes checking the bell and all L.E.D. operations as described in the operation.
19. In order to test the battery operation, it will be necessary to interrupt A/C power to the panel and then run the system tests described in 18 above. It is recommended that this test be accomplished at least twice a year.

### Maintenance:

20. Battery: The model 1230 rechargeable solid-gel (12V, 4AH) battery does not require any regular maintenance. Under normal conditions it should last for 3 years. Should replacement be necessary, only an exact replacement should be used. Your installing company has these in stock.
21. Fuse and L.E.D.: Only exact replacements should be used; consult your installing company.
22. False alarms or impaired operations can occur for various reasons. Chief among these would be: Excessive loss of A/C power which would deplete the stand-by battery, excessive external electromagnetic interference, lightning strikes, poor external (loop) connections, intermittent contact in external devices (swingers) and incorrect operation of the panel.