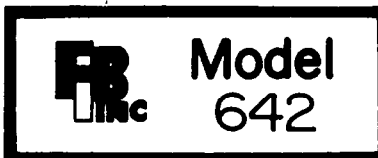


Fire Burglary Instruments, Inc.

50 Engineers Road, Hauppauge, New York 11787



INSTALLATION INSTRUCTIONS

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

TERMINALS	DESCRIPTIONS
Terminals 1 & 2	Low Voltage Input: Use Model 871 transformer. Connect transformer output to terminals 1 & 2.
Terminals 3 & 4	Closed Protective Circuit: Zone 1. May be bypassed with the zone switch in center position.
Terminals 5 & 6	Closed Protective Circuit: Zone 2. May be bypassed with the zone switch in right-hand position.
Terminals 7 & 8	Delay Loop: Wire closed delay circuit to these terminals.
Terminals 5 & 8	Open Protective Circuit: Mats, etc.
Terminals 9 & 10	24 Hour Panic: Open Circuit - a closure on this circuit will cause the bell to ring and can be reset at the reset switch of the key station, by energizing the key two times.
Terminals 11 & 12	Bell Output: 6-9 volts on burglary or panic. 11(+), 12(-).
Terminals 13 & 14	Bell Output: 6-9 volts on fire. 14(+), 13(-).
Terminals 15 & 16	Open circuit contact that closes when burglary or panic circuit is tripped. Can be used for dialer, siren or any electrical circuit up to 3 amps.
Terminals 17 & 18	Open circuit contact that closes when fire circuit is tripped. Can be used for dialer, siren or any electrical circuit up to 3 amps.
Terminals 19 & 20	Sonalert: Early warning indication for entrance-exit circuit. 19(+). Do not exceed 5 ma draw on these terminals.
Terminals 21 & 22	Open Fire Circuit: Wire thermostats in parallel - a closure on this circuit will cause a voltage to appear on terminals 13 and 14 and the dry contacts 17 and 18 to close.
Terminals 23 & 24	Smoke Detector Output: Continuous 6-9 volt output. Momentarily pushing reset switch (lower right) will interrupt power and reset the smoke detectors. 23(+). NOTE: The total current available on the panel is 3 amps.
Terminals 25 & 26	Green L.E.D. Circuit: <u>Use LEDs only</u> : Indicates condition of protective circuit. Light off indicates that the protective circuit is open. Light on indicates that system may be armed.
Terminals 25 & 27	Red Light Circuit: LEDs or incandescent lamps may be used - indicates status of system. Red light (LED) on indicates system is armed.
Terminals 25 & 28	Spring-loaded open key switch or open circuit push button, (momentary closure): Used to switch the control panel from green light (stand-by) to red light (armed). NOTE: Since terminal 25 is the same for the key, green LED and red light circuits, only four (4) wires are required for a remote station. Remote stations may be made tamper-proof by using a five (5) wire cable. Place a normally open tamper button behind the remote station and wire one side of the button to terminal 10 and the other side to terminal 25.
Red & Black Wires	RED: Connect to positive of rechargeable battery (use snap-on clip). BLACK: Connect to negative of rechargeable battery (use snap-on clip).

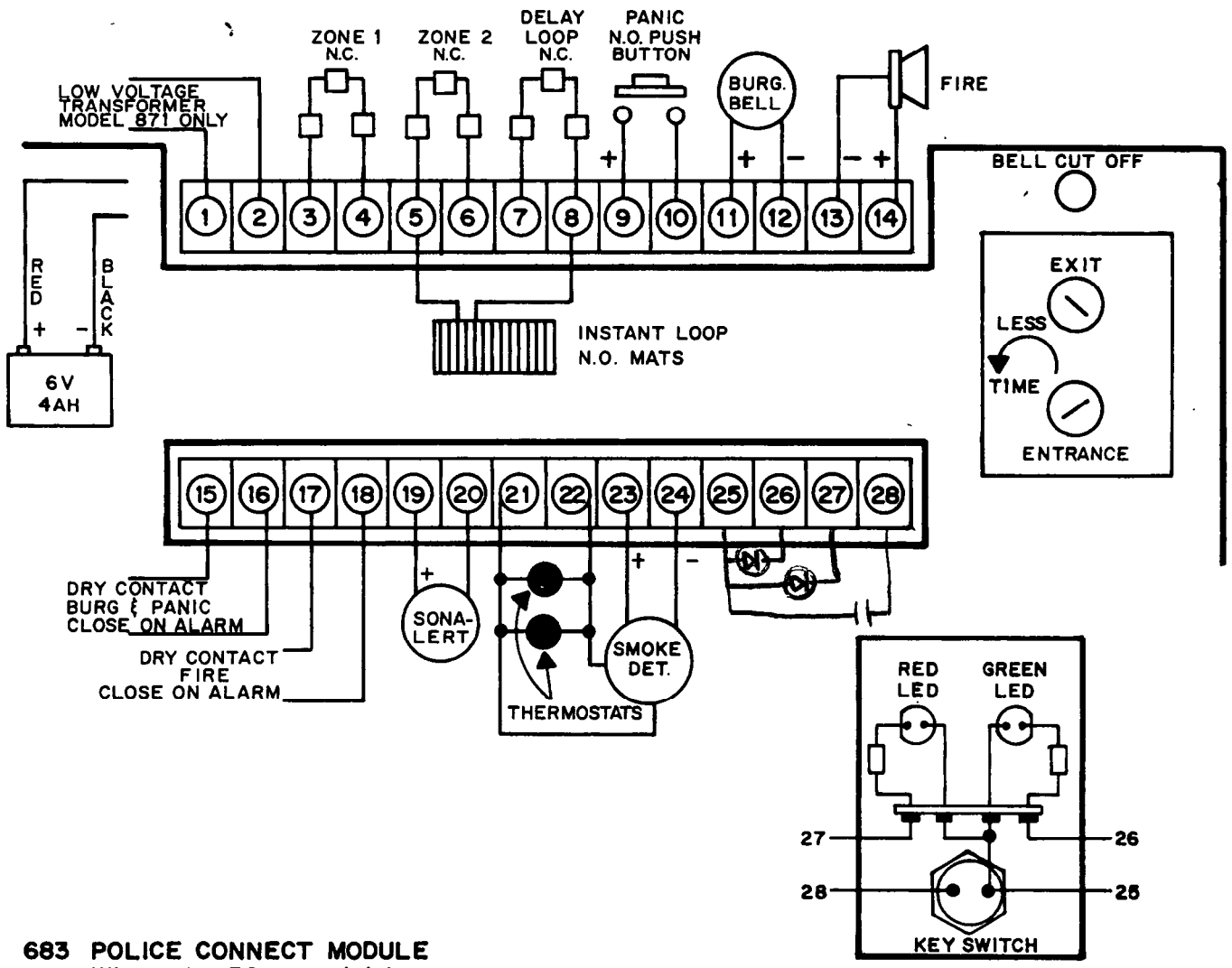
EXIT AND ENTRANCE ADJUSTMENT PROCEDURE:

1. Turn exit pot fully counter-clockwise. (min)
2. Turn entrance pot fully clockwise. (max)
3. Test delay loop by putting a voltmeter or sonalert on terminals 19 and 20. Close all the protective and delay loops (green light on) and set the system to the armed (red light) condition. Now open the delay door or remove the connection to terminal 7. 5-6 volts should appear on terminals 19 and 20 or the sonalert should sound. This indicates that the delay loop is operating correctly. Disarm the system.
4. Exit time is set for the desired delay period by turning the pot clockwise. A $\frac{1}{4}$ turn of the pot will be about 20 - 30 seconds. Start timing the exit delay as soon as the system is "armed." Now open the delay door or remove the connection to terminal 7. Once again, wait for 5-6 volts to appear on terminals 19 and 20 or the sonalert to sound. This period is the exit time. Should more time be required, repeat this procedure.
5. Entrance Time: From the time the sonalert comes on or 5-6 volts appear on terminals 19 and 20 to the time the bell rings is the entrance time. With the pot fully clockwise, the entrance time is set to maximum. To decrease the time, turn the pot counter-clockwise.

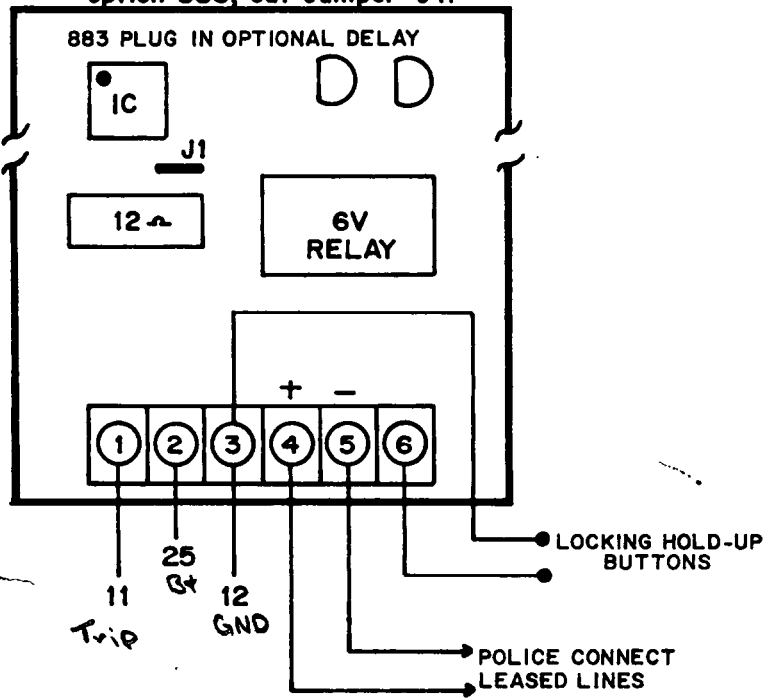
NOTE: For accurate entrance timing, the delay loop must be closed during the entrance cycle. IE: After the sonalert sounds or voltage appears on 19 and 20, close the connection to 7 or close the delay door and continue timing until the bell sounds.

BELL CUT-OFF/RECYCLE TIME ADJUSTMENT:

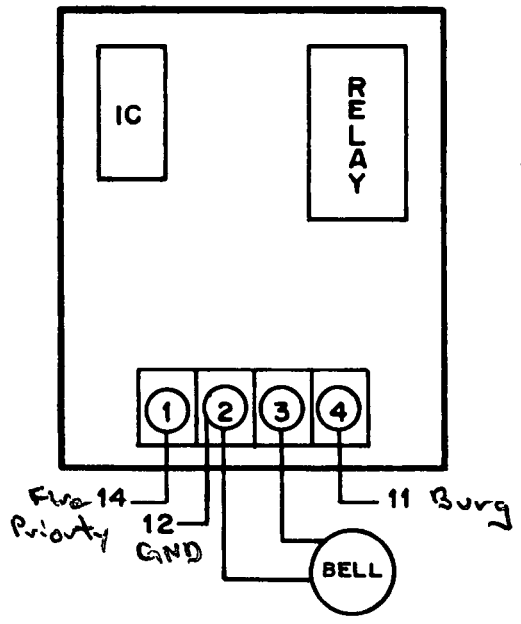
The built-in recycle/bell cut-off timer is preset for approximately 30 seconds. Jumper J1 when cut will provide a 12-18 minute time and with Jumpers J1 and J2 cut, the time will be 24-36 minutes. This timing circuit will completely recycle the control if all the loops are restored after a trip. If the loop remains open, the bell will cut off, but the system will not recycle. A cut off LED indication is on the front of the control instrument.

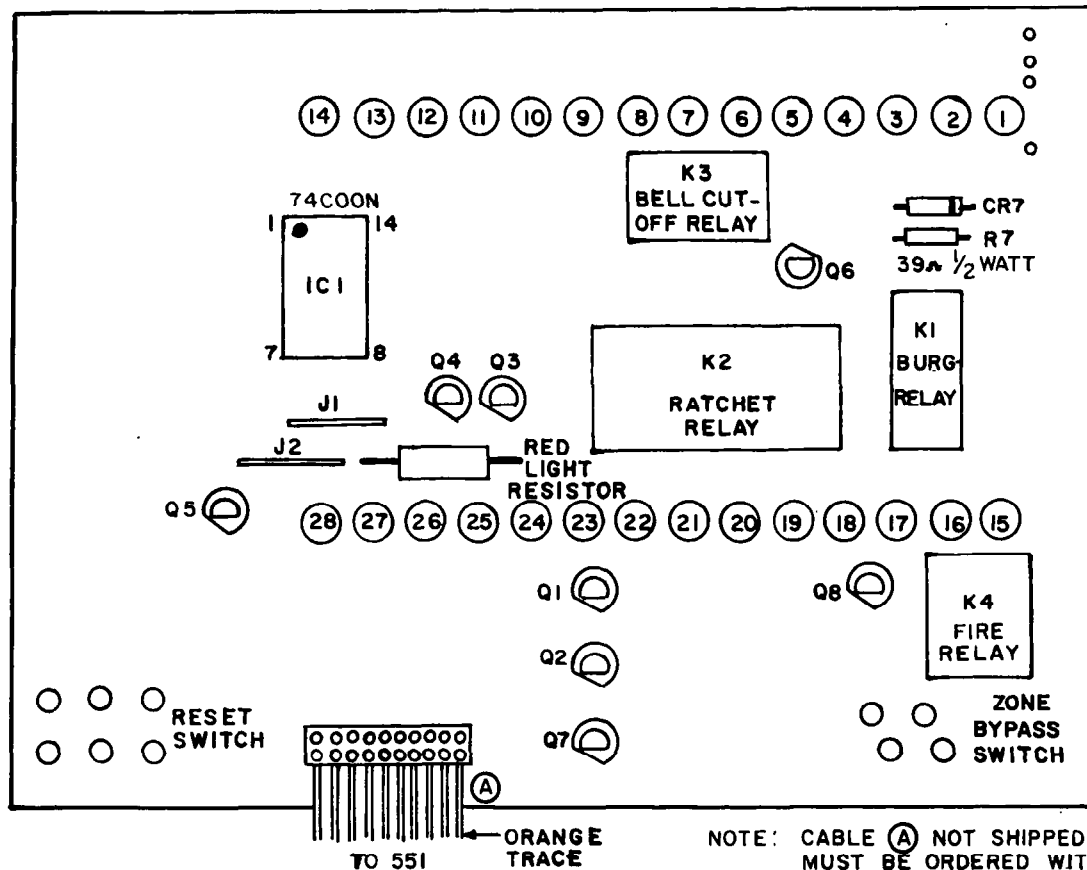


683 POLICE CONNECT MODULE
 When using 30 second delay option 883, cut Jumper J1.



681 FIRE BELL PULSING MODULE





- Q1- GREEN L.E.D. TRANSISTOR
- Q2- LOOP TRANSISTOR (INSTANT ZONES)
- Q3- PANIC TRANSISTOR
- Q4-SONALERT TURN OFF TRANSISTOR
- Q5-SONALERT TURN ON TRANSISTOR

NOTE: CABLE (A) NOT SHIPPED WITH 642
MUST BE ORDERED WITH 551.

- Q6-BELL CUT-OFF TRANSISTOR
- Q7-LOOP TRANSISTOR (DELAY LOOP)
- Q8- BELL TURN ON TRANSISTOR
- IC1-ALL TIMING FUNCTIONS
- J1 & J2- BELL CUT-OFF/RECYCLE
TIMING JUMPERS:
J1 - 15 MINUTES
J2 - 15 MINUTES