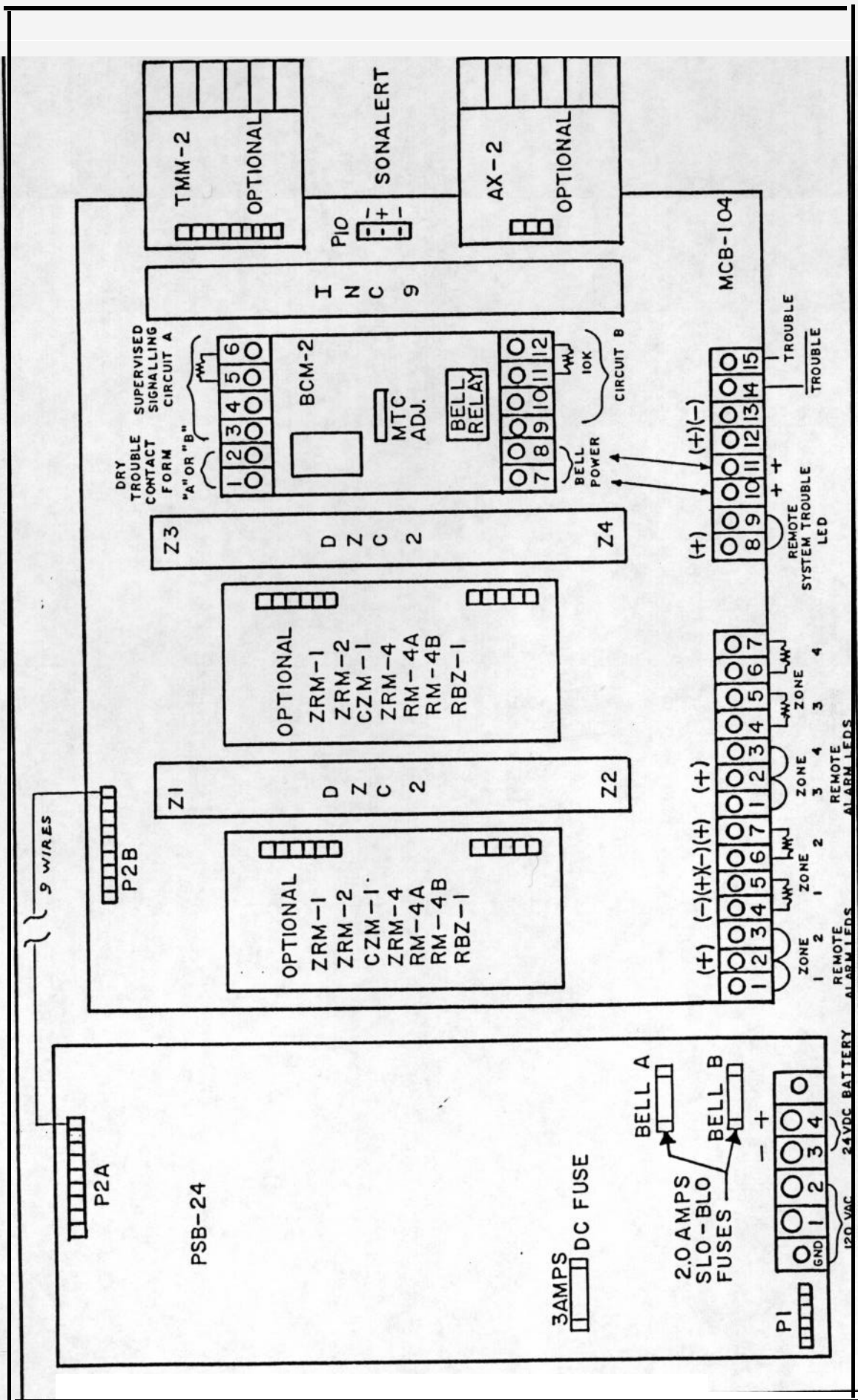


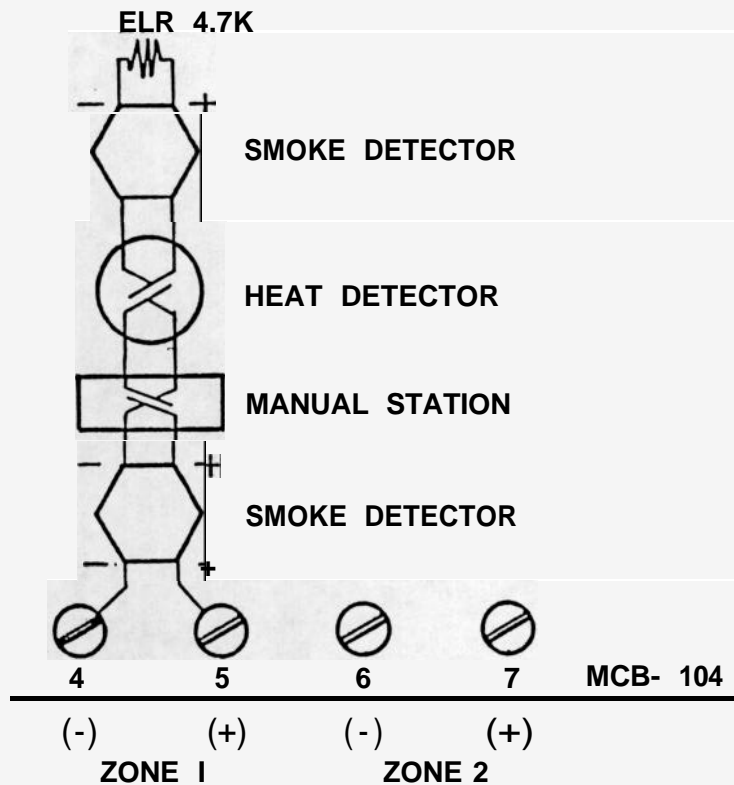
FIGURE 1 — COMPONENT LAYOUT



INITIATING DEVICE CONNECTION (TYPICAL)

FIGURE 3

SUPERVISED CLASS B OPERATION

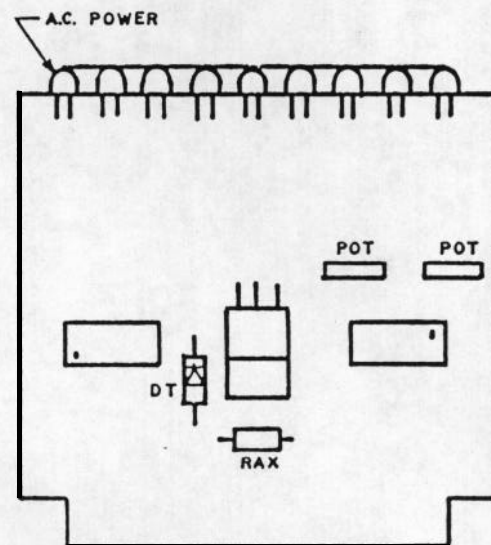
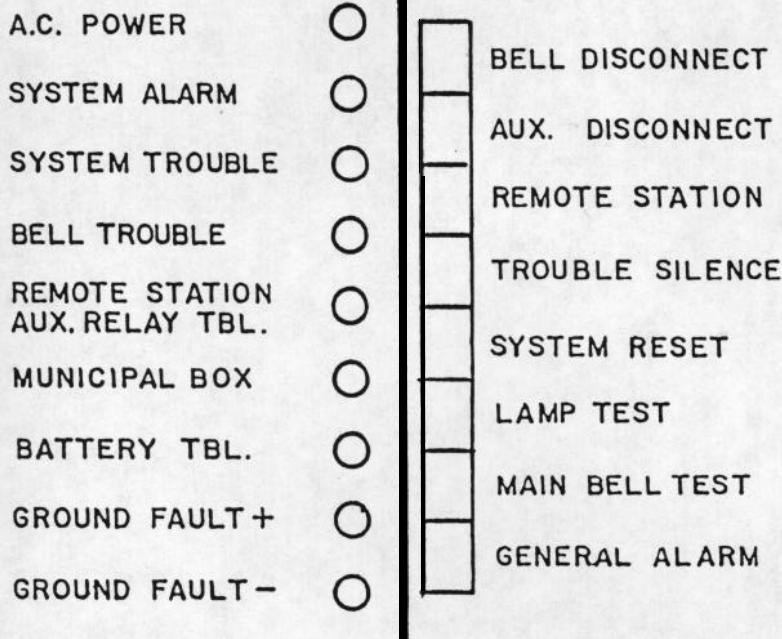


- Notes:
- 1) Detection loop specifications
 Operation: Class B
 Voltage standby: 23VDC
 Alarm current: 15mA minimum.
 Short circuit current: .35MA±10ma.
 Supervision current: 5mA
 End of line resistor: 4.7k, 5%
 Maximum loop resistance: 200 ohms
 Maximum detector current: 2.0mA./Zone
 - 2) Smoke and ionization detectors requiring separate 24VDC can be powered from MCB-104 terminal 12(+) & 13(-) . Use end of line relay (SDLR-B) to supervise power circuit wiring.
 - 3) Detector loop current is sufficient to ensure operation of one detector per zone.
 - 4) Compatible, U.L. listed, 2 wire detector available from Fire-Lite.
 - 5) Initiating devices include: Manual station, heat detectors, smoke detectors, ionization detectors, waterflow alarm devices, coded manual stations.
 - 6) Use mechanical water motor gong if waterflow alarm devices are connected to the zone.
 - 7) Inhibit latching circuit by removing diode marked with a * from DZC-2 card if coded manual stations are connected.
 - 8) Compatible, U.L. listed, 2 wire detector available from Fire-Lite, include the following series:

CP101	SD12T
CP204	SD32T
CP311	
CP711	
CP751	

INC-9 INDICATOR CARD

FIGURE 4



- Bell Disconnect : This switch in the depressed position will silence signalling devices connected to BCM-2 output and indicate "Bell" and "System Trouble" after a short delay.
- Aux. Disconnect : This switch disconnects auxiliary relay and indicates "Aux relay" plus "System Trouble".
- Remote Station : This switch in the depressed position will prevent operation of both the Polarity Reversal Remote station and the Municipal Box. Also remote station and system trouble LED turns on.
- Trouble Silence : Depressing this switch during trouble condition will silence Sonalert. It will resound when trouble is corrected.
- System Reset : Function of this switch is to reset the system and the detectors provided alarm condition has been cleared.
- Lamp Test : Used to test all local and remote LED's.
- Bell Test : Depressing this switch will activate the main bell ckts.
- General Alarm : This switch will activate all alarm devices.

"A.C. POWER" - A green LED indicator that lights when the main power supply is operating from the AC power source. If AC power indicator fails to light under normal conditions, service system immediately.

"SYSTEM ALARM" - A red LED indicator that lights when an alarm condition has been detected.

"SYSTEM TROUBLE" - Visual and audible indicators that are activated by a fault or abnormal operating condition. A system trouble indicates that the fire alarm system may be inoperative.

"BELL TROUBLE" - A yellow LED indicator that lights when a fault or abnormal condition exists in the main audible bell circuits, including open or shorted field wiring, a non-polarized bell, improperly polarized bell (reverse connected), an off-normal bell disconnect switch, failure to connect bell power to BCM-2 module,

"REMOTE STATION/AUX RELAY TROUBLE" - A yellow LED indicator that lights when a fault or abnormal condition exists in the remote signaling circuit including an open circuit to the local energy municipal box or an improperly tripped municipal box, "remote station" switch in off-normal position, or when Aux relay module is not seated properly.

"MUNICIPAL BOX" - A yellow LED indicator that lights when the municipal box has been tripped.

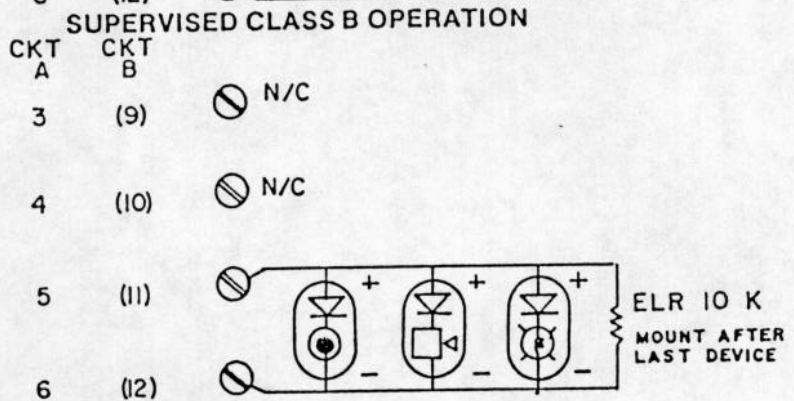
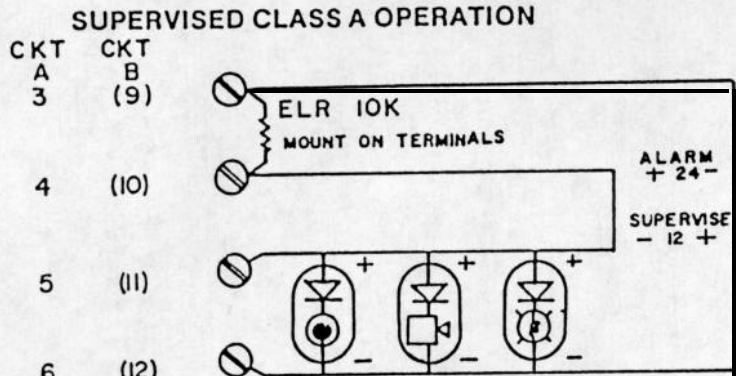
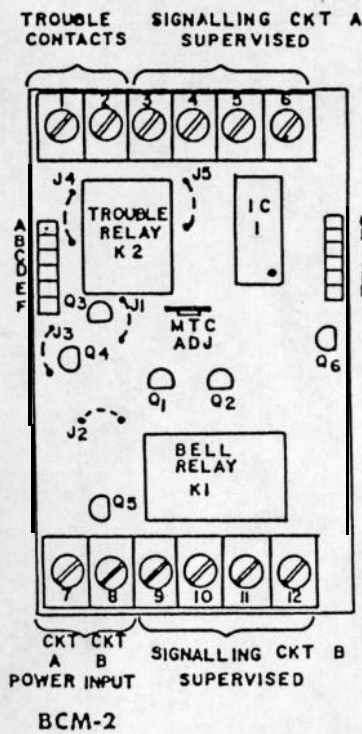
"BATTERY TBL" - A yellow LED that lights to indicate low battery voltage.

"GROUND FAULT +" - A yellow LED indicator that lights when a positive ground fault exists.

"GROUND FAULT-" - A yellow LED indicator that lights when a negative ground fault exists.

BCM-2 BELL CIRCUIT

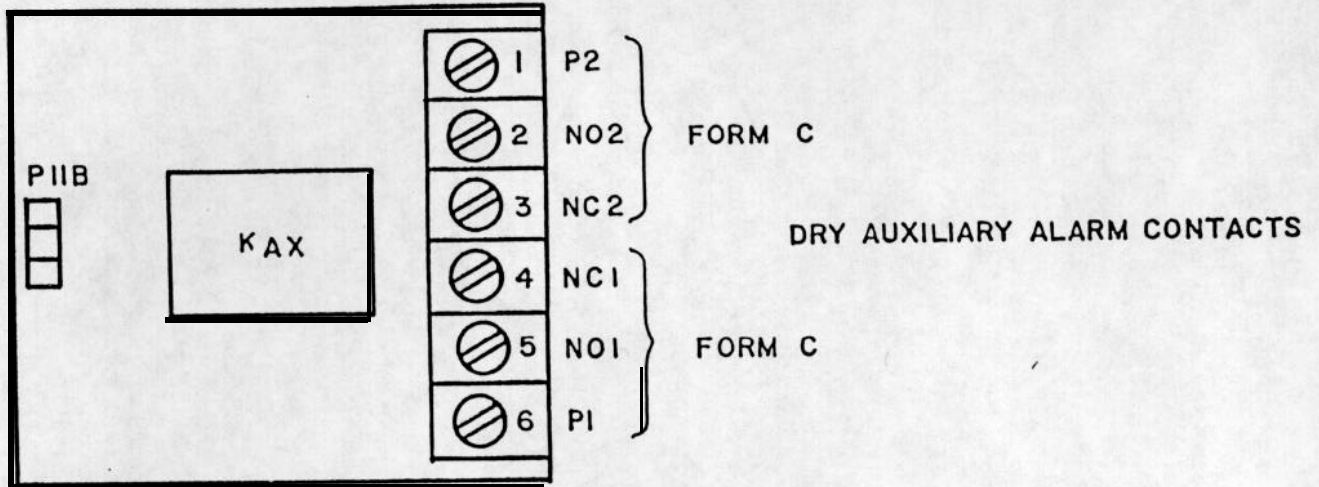
FIGURE 5



Notes:

1. Modes of operation
 - A) For non-disconnectable bells remove jumper "J3" but leave jumper "J2".
 - B) For disconnectable bells remove jumper "J2" but leave jumper "J3".
 - C) For MTC bell signal, remove jumper "J1".
 - D) Select normally open or normally closed trouble contact by removing J4 or J5 respectively. Trouble contact is provided at terminals 1 and 2. It is rated 2 AMPS, 28 VDC.
2.
 - A) Connect signalling circuit as shown.
 - B) Size wire for a maximum voltage drop of 2 VDC.
 - C) Use polarized, U.L. listed, signalling devices with a minimum rated voltage range of 18 to 30 VDC.
3. For bell power connect terminal 7 (positive input CKT A), terminal 8 (positive input CKT B) of BCM-2 to terminal 10 & 11 of MCB-104 respectively. Maximum bell load is 1.1 AMPS per CKT.

AX-2 AUXILIARY (OPTIONAL)
 FIGURE 8

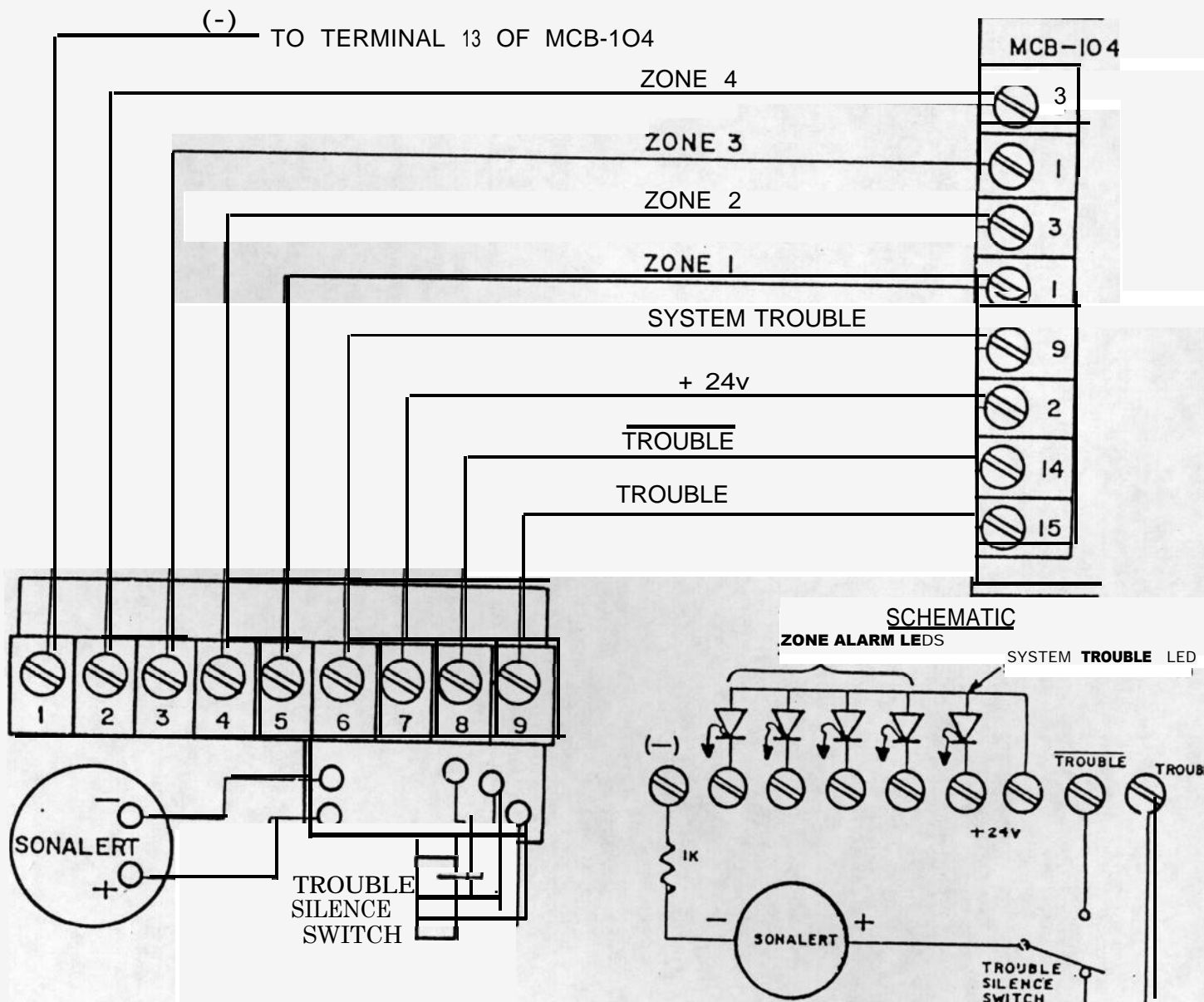


Supplementary alarm contacts (non-supervised)

- A) Two sets of Form C contacts are provided at terminals 1 to 3 and 4 to 6.
- B) Contacts are rated at 10 AMPS, 28 VDC/115 VAC resistive.
- C) Remove resistor RAX in INC-9 card if AX-2 is employed. (See INC-9 information page)

RZA REMOTE ZONE ANNUNCIATOR

FIGURE 12 CONNECTION DIAGRAM



- Notes:
- 1) All* field connections are supervised for opens except sonalert.
 * To check normally open connection flip Trouble silence switch to its off-normal (downward) position. Sonalert should sound. If not check connection between MCB terminal 14 & terminal 8 of RZA.
 2. Maximum wire resistance is 100 ohms for all connections except connection to terminal 7 should not exceed 5 ohms.
 - 3) Silenced audible device will resound when trouble condition is corrected.