**SYSTEM WIRE DIAGRAM**

**TYPICAL A-42NN MASTER PANEL:**
(NN = TOTAL NUMBER OF ZONES)

**NOTES:**

AUX1, AUX2, AUX3 AND AUX4 ARE OPEN COLLECTOR OUTPUTS FOR ZONES 1 THROUGH 4, RESPECTIVELY. EACH CAN SINK UP TO 100 mA AND IS ACTIVE DURING BOTH ALARM AND ACKNOWLEDGE CONDITIONS.

IF A ZONE ON AN 8010-300 CONTROL BOARD IS NOT BEING USED (SEE ZONES 1 THRU 3), THE JUMPER FOR EACH SUCH ZONE MUST BE SET TO THE "NOT USED" POSITION. IF THIS IS NOT DONE, A FAULT WILL BE INDICATED.

OLD STYLE 8010-300 BOARDS HAVE SCREW TERMINALS IN PLACE OF THE PIN-HEADER SHOWN HERE. WHEN ORDERING REPLACEMENT BOARDS, BE SURE TO SPECIFY "OLD STYLE / SCREW TERMINALS" IN THIS CASE.

JUMPER BETWEEN "GND" AND "S-COM" (PART OF FACTORY WIRE HARNESS) ENABLES ZONE SWITCHES ON PANEL FACEPLATE TO ENABLE / DISABLE THE SWITCHES FROM AN EXTERNAL SOURCE (FIRE ALARM PANEL, ETC.). DISCONNECT THIS WIRING, AND REPLACE WITH CONTACTS THAT FAIL TO A NORMALLY-CLOSED POSITION.

**DC POWER SUPPLY:**
MODEL B-5243A SHOWN 24 VDC @ 3.5 AMPS

**TYPICAL CALL STATION**

**FACEPLATE SPEAKER**

**GROUND CLIP**

**INSULATED WIRE**

**PIG-TAIL TO 2-GANG BACK BOX VIA GROUND-CLIP**

**FIELD WIRING**

**TERMINATE SHIELDS TO SPEAKER MOUNTING STUD**

**SHIELD NOT TERMINATED AT THIS END (TAPE-UP)**

**STATION LEAD WIRES**

**4201A**
**4201B**
**4201B/V**
**4201B/VM**

**BOND TO PANEL BACK BOX**

**24 VDC OUTPUT**

**120 VAC CIRCUIT**

**GROUND LUG**

**120 VAC OPEN 24VDC**

**GREEN GROUND PIGTAILS**

**AL400ULXB**

**3-COND #18 AWG (MIN.)**

**8010-281 POWER/TONE BOARD**

**8010-300 CONTROL BOARD (TYPICAL)**

**NOTE**:

"AUX" TERMINALS, ON THE POWER BOARD, PROVIDE 2 AMP NORMALLY OPEN CONTACTS THAT CLOSE DURING ANY CALL FOR ASSISTANCE.