# 4200 RESCUE ASSISTANCE INSTALLATION GUIDE-OVERVIEW

IMPORTANT: THE FOLLOWING FIELD MODIFICATIONS MUST BE COMPLETED AT THE TIME OF INSTALLATION.

THE 4200 RESCUE ASSISTANCE SYSTEM REQUIRES THE FOLLOWING SETTINGS FOR PROPER OPERATION. ADDITIONAL INFO & DIAGRAMS ARE AVAILABLE IN THE INSTALL PACKET AT WWW.CORNELL.COM

#### 1. RECOMMENDED CALL STATION WIRING - HOME-RUN BETWEEN EACH STATION & ANNUNCIATOR:

(1) CORNELL CB-4200 CABLE - OR- THE FOLLOWING:

TWO SEPARATE CABLES TO EACH STATION:

- (1) 4-CONDUCTOR 22 GAUGE CABLE [+24V, SWITCH, LED, & GROUND]
- (1) 22 GAUGE SHIELDED PAIR [AUDIO]

## 2. ADJUST THE POWER SUPPLY VOLTAGE (SEE FIGURE 1)

THE 4200 RESCUE ASSISTANCE SYSTEM REQUIRES THE POWER SUPPLY **VOLTAGE TO BE SET AT 24VDC**. THE CORNELL POWER SUPPLIES ARE FACTORY-SET AT 12VDC. SEE THE LOCATION OF THE SWITCH IN FIGURE 1.

### 3. SET "USED / NOT-USED" ZONE JUMPERS (SEE FIGURE 2)

8010-300 CONTROL BOARDS ARE LOCATED ON THE REAR OF THE ANNUNCIATOR FACEPLATE. EACH CONTAINS (4) JUMPERS (ONE PER ZONE). THE "USED" POSITION ENABLES SUPERVISION, SUCH THAT A USED ZONE WILL REPORT A LINE FAULT IF THE CALL STATION BECOMES DISCONNECTED, OR OF NO STATION IS CONNECTED. THE "NOT USED" POSITION DISABLES THIS SUPERVISION.

#### 4. ADJUST THE VOLUME CONTROLS (SEE FIGURE 3)

VOLUME CONTROLS ARE LOCATED ON THE AMPLIFIER BOARD, WHICH MOUNTS IN THE ANNUNCIATOR BACK BOX.

START WITH THE CONTROLS FOR THE "OUTGOING" (TALK) AND "INCOMING" (LISTEN) VOLUME SET AT NO GREATER THAN ¼ TURN FROM THE FULLY CLOCKWISE POSITION. ANY HIGHER INITIAL SETTING MAY CAUSE FEEDBACK.

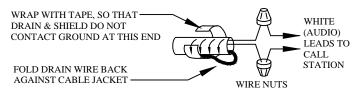
ADJUST THE VOLUME LEVELS WHILE COMMUNICATING WITH THE CALL STATION THAT IS THE FARTHEST AWAY FROM THE ANNUNCIATOR. ADJUST BOTH IN-COMING AND OUT-GOING LEVELS, IN SMALL INCREMENTS, FOR CLEAR AUDIO / THE BEST PERFORMANCE.

THE CALL STATION PRE-TONE ("BEEPS" PRODUCED AT THE CALL STATIONS) SHOULD INITIALLY BE SET TO APPROXIMATELY HALFWAY - THEN ADJUST AS NEEDED, TO COMPENSATE FOR AMBIENT NOISE.

# 5. AUDIO SHIELD (DRAIN WIRE) MUST ONLY BE GROUNDED AT THE ANNUNCIATOR END.

AT THE ANNUNCIATOR, CONNECT THE SHIELD (DRAIN WIRE) TO THE SPEAKER MOUNTING STUD, AS SHOWN ON DRAWING # 90022-12.

AT THE CALL STATION, CONNECT THE WHITE CALL STATION LEAD WIRES TO THE SUPPLIED TWISTED PAIR. THE AUDIO SHIELD SHOULD BE TRIMMED-OFF FLUSH WITH THE CABLE JACKET AND/OR TAPED BACK TO THE CABLE, SUCH THAT THE SHIELD CAN NOT TOUCH ANY GROUNDED METAL AT THIS END..



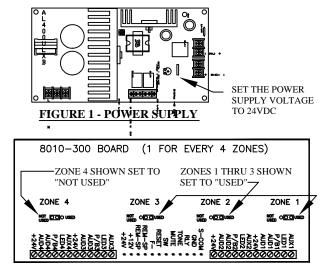


FIGURE 2 - 8010-300 BOARD

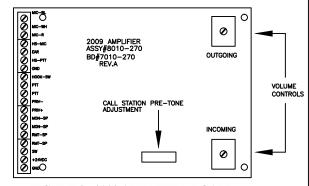
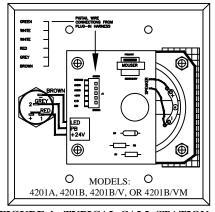


FIGURE 3 - 2009 AMPLIFIER BOARD



**FIGURE 4 - TYPICAL CALL STATION** 



