## 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 REOUIRES 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. SET THE POWER 3. SET "USED / NOT-USED" ZONE JUMPERS (SEE FIGURE 2) SUPPLY VOLTAGE FIGURE 1 - POWER SUPPLY TO 24VDC 8010-300 CONTROL BOARDS ARE LOCATED ON THE REAR OF THE ANNUNCIATOR FACEPLATE. EACH CONTAINS (4) JUMPERS (ONE PER ZONE). THE "USED" POSITION ENABLES (1 FOR EVERY 4 ZONES) 8010-300 BOARD SUPERVISION, SUCH THAT A USED ZONE WILL REPORT A ZONE 4 SHOWN SET TO ZONES 1 THRU 3 SHOWN LINE FAULT IF THE CALL STATION BECOMES "NOT USED" SET TO "USED" DISCONNECTED, OR OF NO STATION IS CONNECTED. THE "NOT USED" POSITION DISABLES THIS SUPERVISION. ZONE 2 ZONE 1 ZONE 4 ZONE 3 NOT 000 4. ADJUST THE VOLUME CONTROLS (SEE FIGURE 3) ē VOLUME CONTROLS ARE LOCATED ON THE AMPLIFIER 12V 24V BOARD, WHICH MOUNTS IN THE ANNUNCIATOR BACK ... BOX. **FIGURE 2 - 8010-300 BOARD** START WITH THE CONTROLS FOR THE "OUTGOING" (TALK) AND "INCOMING" (LISTEN) VOLUME SET AT NO GREATER THAN <sup>1</sup>/<sub>4</sub> TURN FROM THE FULLY CLOCKWISE POSITION. 0 ANY HIGHER INITIAL SETTING MAY CAUSE FEEDBACK. Ø 2009 AMPLIFIER ASSY#8010-270 ADJUST THE VOLUME LEVELS WHILE COMMUNICATING OUTGOING BD#7010-270 REV.A WITH THE CALL STATION THAT IS THE FARTHEST AWAY HS-PT FROM THE ANNUNCIATOR. ADJUST BOTH IN-COMING AND PTT PTT VOLUME CONTROLS OUT-GOING LEVELS. IN SMALL INCREMENTS, FOR CLEAR AUDIO / THE BEST PERFORMANCE. CALL STATION PRE-TONE THE CALL STATION PRE-TONE ("BEEPS" PRODUCED AT THE INCOMING CALL STATIONS) SHOULD INITIALLY BE SET TO APPROXIMATELY HALFWAY - THEN ADJUST AS NEEDED. Ø TO COMPENSATE FOR AMBIENT NOISE. NO 5. AUDIO SHIELD (DRAIN WIRE) MUST ONLY BE FIGURE 3 - 2009 AMPLIFIER BOARD GROUNDED AT THE ANNUNCIATOR END. AT THE ANNUNCIATOR, CONNECT THE SHIELD (DRAIN WIRE) TO THE SPEAKER MOUNTING STUD, AS SHOWN ON DRAWING # 90022-12. 0 -AT THE CALL STATION, CONNECT THE WHITE CALL RED STATION LEAD WIRES TO THE SUPPLIED TWISTED PAIR. GREY $\oplus$ 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 .. WRAP WITH TAPE SO THAT +24 WHITE DRAIN & SHIELD DO NOT ⊕ ۲ (AUDIO) CONTACT GROUND AT THIS END · - F LEADS TO CALL Ο 0 MODELS: STATION FOLD DRAIN WIRE BACK 4201A, 4201B, 4201B/V, OR 4201B/VM AGAINST CABLE JACKET WIRE NUTS FIGURE 4 - TYPICAL CALL STATION

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