COOPER Wheelock

Fast-Track Set-up Guide for SAFEPATH4 SP40S/SP40SE Panel

This guide has been created to provide you with a fast track setup to get your **SP40S or SP40SE** panel up and running using the digital voice messaging and live voice modes of operation. Other modes, which include night ring, telephone paging and background music and other features, are discussed in the technical manual. This guide is not to take the place of the Installation, Testing, Operation and Maintenance Manual, which you received in this package. When in doubt, refer to the Manual for additional information. **Always Obey All Safety Precautions and Warnings.**

1. Inventory

When you receive your new Panel, check to see that you have the following items:

- **SP40S or SP40SE** Panel.
- Package of test EOLRs (End of Line Resistors)
- Operation and Installation Manual
- 2 UL Listed 10K Ohm EOLRs.
- Hardware Kit containing Battery connection wires

2. Mounting

MAKE SURE THAT ALL EXTERNAL WIRING IS REMOVED, AND ALL ELECTRICAL COMPONENTS ARE CLEAR BEFORE DRILLING MOUNTING HOLES AND MOUNTING THE SP40S/SP40SE PANEL.

1. Open the front cover and dead front panel.
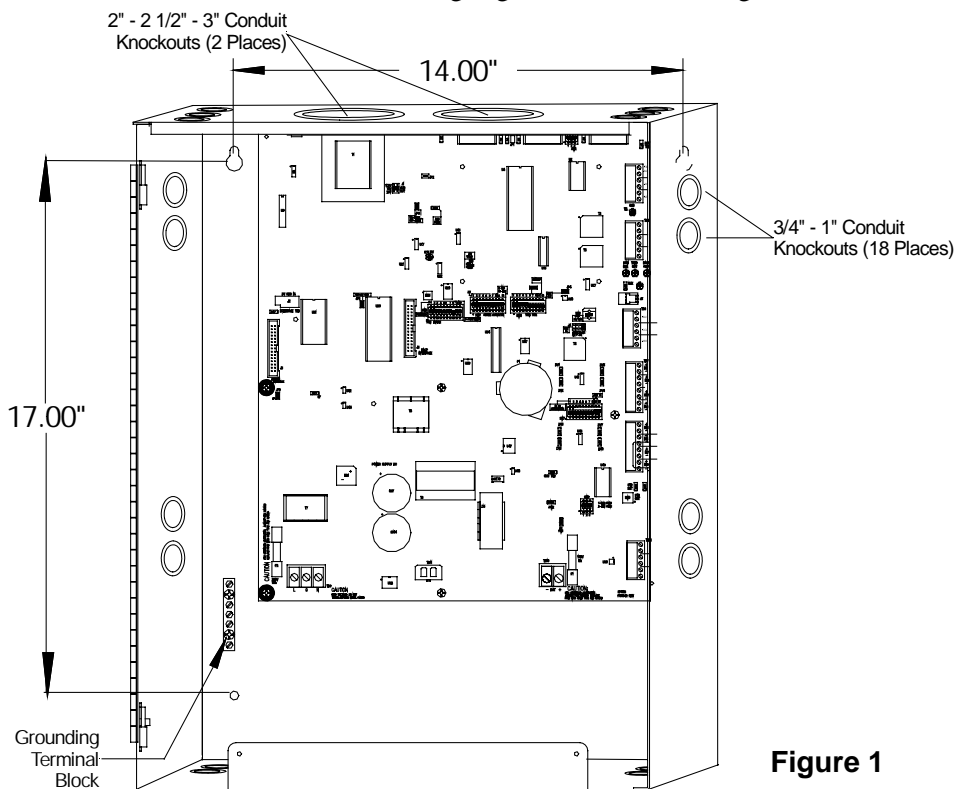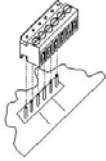2. Mount the Panel in the desired location-using Figure 1 for hole configuration.

Figure 1

3. Connect conduit fittings and conduit to the Panel through the conduit entrances shown on Figure 1 as necessary. ***Wire the Power input on the left bottom of the Panel, and input and output wiring on the right side of the Panel.***
4. Install field wiring in conduit as required.
5. Connect the Panel to earth ground at grounding stud shown on Figure 1.
6. Make sure that all debris is cleared from the enclosure.
7. For more details refer to Chapter 3 of the **SP40S or SP40SE** Installation, Testing, Operation and Maintenance Manual.

3. Wiring

The terminal blocks on the SP40S/E are removable. Lift the terminal block from the circuit board, attach wires to the desired connections, and then plug the terminal block back on the board.

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				Table 1 Standard Messages for the SP40S/SP40SE		
Message #	Priority #	`Type of Message	Voice Type	Message Script	Pre-Tone	Post Tone
IN1	3	Fire (do not use elevators)	Male	"May I have your attention please! A fire emergency has been reported in the building. While this is being verified, please leave the building by the nearest exit. Do not use the elevators."	Three (3) rounds of code 3 tone	Three (3) rounds of code 3 tone
IN2	4	Fire (do not use elevators)	Female	"May I have your attention please! A fire emergency has been reported in the building. While this is being verified, please leave the building by the nearest exit. Do not use the elevators."	Three (3) rounds of code 3 tone	Three (3) rounds of code 3 tone
IN3	5	Fire	Male	"May I have your attention please! A fire emergency has been reported in the building. While this is being verified, please leave the building by the nearest exit."	Three (3) rounds of code 3 tone	Three (3) rounds of code 3 tone
IN4	6	Emergency	Female	"May I have your attention please! An emergency has been reported in the building. While this is being verified, please leave the building and report to the designated assembly are for your group."	Three (3) rounds of code 3 tone	Three (3) rounds of code 3 tone
IN5	7	Emergency	Male	"May I have your attention please! An emergency has been reported in the building. While this is being verified, please leave the building and report to the designated assembly are for your group."	Three (3) rounds of code 3 tone	Three (3) rounds of code 3 tone
IN6	8	Weather	Male	"May I have your attention please! The National Weather Service has issued a severe weather warning for our area."	Eight (8) seconds of 1KHz tone	Eight (8) seconds of 1KHz tone
IN7	9	All Clear	Male	"May I have your attention please! The building emergency has ended. An all clear has been given. Please resume normal activities."	Eight (8) seconds of 1KHz tone	Eight (8) seconds of 1KHz tone
IN8	10	Test	Male	"May I have your attention please! This is a test of the Cooper Wheelock evacuation system, repeat, this is only a test."	No Tone	No Tone

⚠ **WARNING** **ALWAYS APPLY AC POWER BEFORE CONNECTING BATTERY BACKUP. ALWAYS DISCONNECT BATTERY BACKUP BEFORE DISCONNECTING AC POWER. IMPROPER CONNECTIONS CAN CAUSE DAMAGE TO THE EQUIPMENT AND PERSONAL INJURY.**

Connect the wiring to the proper terminals in the order shown in Figure 2.. Table 1 shows the factory installed messages for each of the inputs (IN1 through IN8)
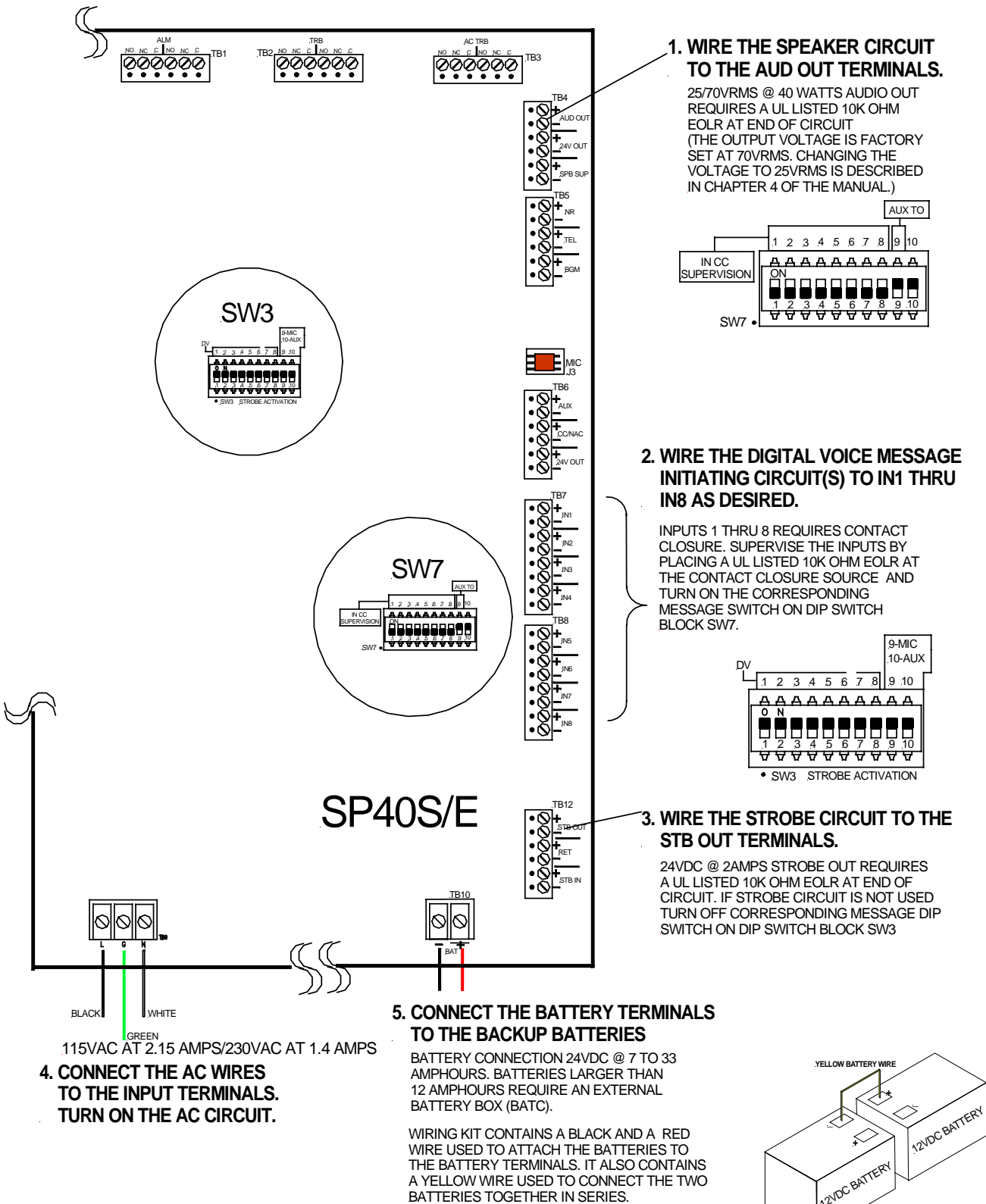

1. WIRE THE SPEAKER CIRCUIT TO THE AUD OUT TERMINALS.

25/70VRMS @ 40 WATTS AUDIO OUT REQUIRES A UL LISTED 10K OHM EOLR AT END OF CIRCUIT (THE OUTPUT VOLTAGE IS FACTORY SET AT 70VRMS. CHANGING THE VOLTAGE TO 25VRMS IS DESCRIBED IN CHAPTER 4 OF THE MANUAL.)

2. WIRE THE DIGITAL VOICE MESSAGE INITIATING CIRCUIT(S) TO IN1 THRU IN8 AS DESIRED.

INPUTS 1 THRU 8 REQUIRES CONTACT CLOSURE. SUPERVISE THE INPUTS BY PLACING A UL LISTED 10K OHM EOLR AT THE CONTACT CLOSURE SOURCE AND TURN ON THE CORRESPONDING MESSAGE SWITCH ON DIP SWITCH BLOCK SW7.

3. WIRE THE STROBE CIRCUIT TO THE STB OUT TERMINALS.

24VDC @ 2AMPS STROBE OUT REQUIRES A UL LISTED 10K OHM EOLR AT END OF CIRCUIT. IF STROBE CIRCUIT IS NOT USED TURN OFF CORRESPONDING MESSAGE DIP SWITCH ON DIP SWITCH BLOCK SW3

5. CONNECT THE BATTERY TERMINALS TO THE BACKUP BATTERIES

BATTERY CONNECTION 24VDC @ 7 TO 33 AMPHOURS. BATTERIES LARGER THAN 12 AMPHOURS REQUIRE AN EXTERNAL BATTERY BOX (BATC).

WIRING KIT CONTAINS A BLACK AND A RED WIRE USED TO ATTACH THE BATTERIES TO THE BATTERY TERMINALS. IT ALSO CONTAINS A YELLOW WIRE USED TO CONNECT THE TWO BATTERIES TOGETHER IN SERIES.

115VAC AT 2.15 AMPS/230VAC AT 1.4 AMPS

4. CONNECT THE AC WIRES TO THE INPUT TERMINALS. TURN ON THE AC CIRCUIT.

SP40S/E

Figure 2

4. Checkout

The following is the checkout procedure to insure proper operation. If any steps in the checkout procedure produce a yellow SYSTEM TROUBLE or AC TROUBLE LED on the keypad (See Figure 3), and an audible tone on the **SP40S** circuit board, refer to Chapter 8 "Troubleshooting" in the Installation, Testing, Operation and Maintenance Manual. To turn off the tone, momentarily depress the "Trouble Silence" pushbutton on the keypad.
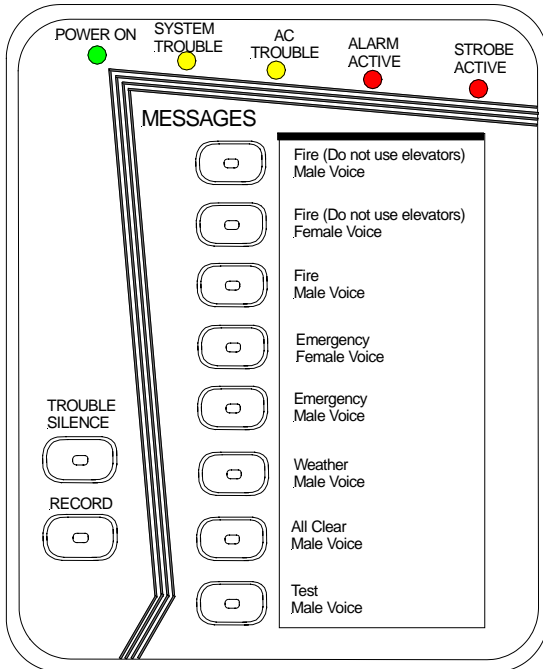

Figure 3

1. Using the push on / push off buttons on the keypad, push on the button that corresponds to the message(s) selected on the PC board. Push off the button to stop the message.

2. Test the microphone circuit by removing the microphone from its holder and speaking into it while depressing the push to talk button. (For best results hold the microphone within one-half inch from your mouth.)

3. Initiate each selected digital message at the remote source, such as the FACP, and verify operation.

4. Close the dead front panel and close the front cover.

5. Congratulations

Congratulations! You have now completed the basic installation of the **SP40S** or **SP40SE** Panel. We trust it will give you years of trouble free operation. Should a problem arise, refer to your Installation, Testing, Operation and Maintenance Manual. If problems persist, contact the Technical Support Engineering Department at Cooper Wheelock Inc. (800) 631-2148.