

Talk-A-Phone Co.

Creating Communication Solutions

Installation & Operation Manual

For

SC-24 Super Consolidator

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Getting Started

I. Getting Started

A. Introduction

Thank you for your purchase of this Super Consolidator. This unit is built with an exceptional standard of quality and should provide years of reliable service.

This manual will guide you through the installation of this unit and provide comprehensive operating instructions. Please read this manual COMPLETELY before installing the unit. Once you have installed it and are familiar with its operation, store this manual in an accessible location for future reference.

B. What Is In The Box

- One KSU
- One (or more) Key Phone Handsets
- One 66 Block
- One Power Supply
- One Instruction Manual

You should inspect your Super Consolidator when you open the box for possible damage in shipment. If it is damaged, or any of the components are missing, contact your Talk-A-Phone Co. distributor immediately. Do not discard any hardware or packing material before you are certain you have all the items listed above, and the unit is installed and functioning correctly.

C. Technical Requirements

When connecting Emergency Phone to an EC-8, we strongly recommend twisted, shielded pairs with the shield connected only at the EC-8 end. The resistance on the line is not to exceed 25 Ohms. The following chart shows distances and recommended wire gauges:

Distance from EC-8 to Emergency/Information Telephone	Recommended Wire Gauge
0 - 500 feet	24 G
501 - 750 feet	22 G
751 - 1,000 feet	20 G
1,001 - 1,800 feet	18 G
1,801 - 3,000 feet	16 G

Distance from EC-8 to SC-24	Recommended Wire Gauges
0 - 1000 feet	24 G
1001 - 1500 feet	22 G
1501 - 2000 feet	20 G
2001 - 3,600 feet	18 G

II. Hardware Installation

Note: If you are using Talk-A-Lert with your SC-24, be sure to read all the instructions, including the Special Section on Talk-A-Lert, before beginning your installation.

A. Setting up the KSU

Make sure the RAM Reset button is in the ON position on the KSU. Next, plug the A cable from the 66 Block into the KSU (Figure 1). Connect the power supply, but do not plug it in until all connections have been completed.

We strongly recommend providing a back-up power source in case of a power failure. Talk-A-Phone offers a model ETP-UPS. For more information, contact the Talk-A-Phone Sales Department.

B. Connecting EC-8's and Emergency Phones

Connect each EC-8 to a CO line on the 66 Block with a modular interface jack in the Local Phone port (Figure 2). Plug all emergency phones into their corresponding EC-8.

C. Connecting Key Phone Handset(s)

Connect Key Phone with a modular interface jack to STA 10 on 66 Block. If additional handsets are used, connect them to STA 11, STA 12 and so on (see Figure 2).

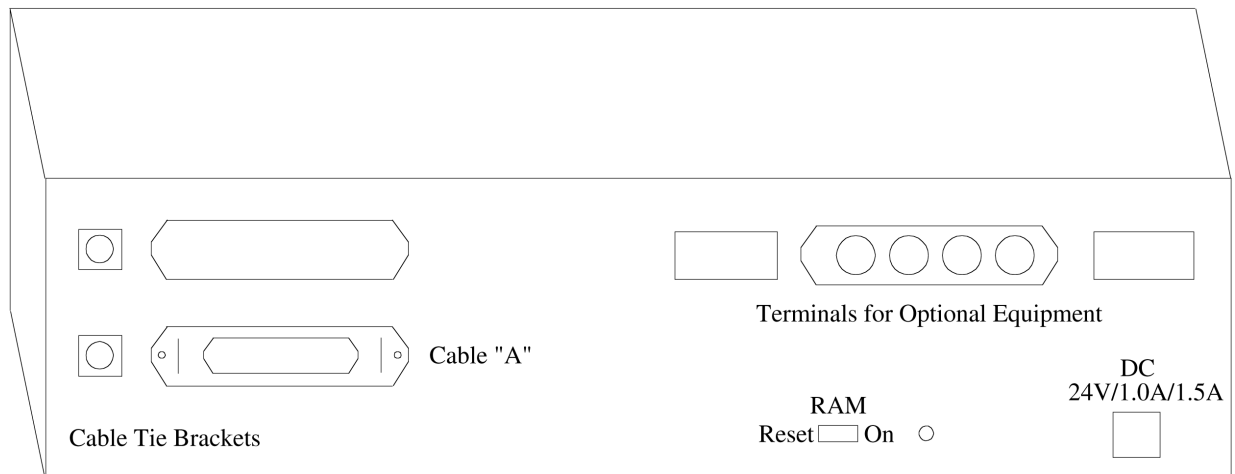


Figure 1. KSU Connections

Software Programming

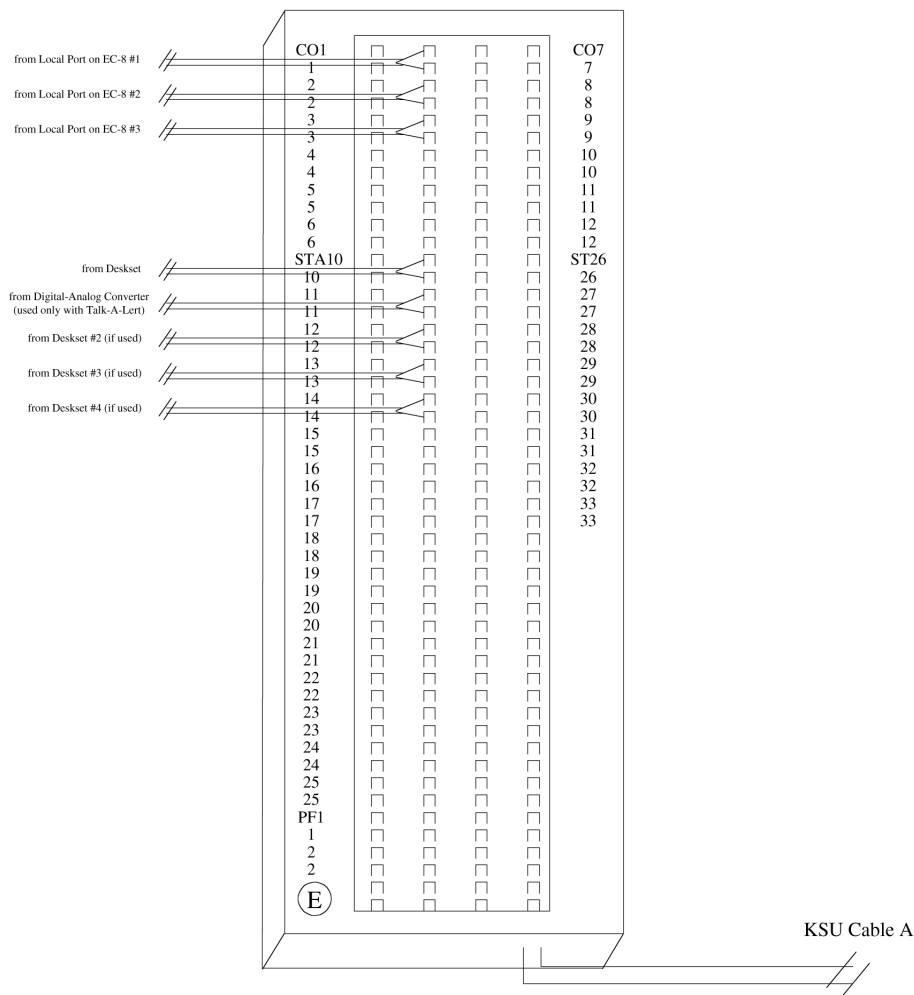


Figure 2. Punch Down Block Connections

III. Software Programming

A. Programming the Speed Keys on the Key Phone(s)

Each EC-8 will use its own Speed Key (the 12 buttons on the left side of the phone). Program the first Speed Key as follows:

1. Press FEATURE, then #3
2. Press the Speed Key button you wish to program.
3. Press CHG
4. Press LINE
5. LCD readout will ask for line #. Enter # of EC-8 (e.g. press 3 for EC-8 #3)
6. Press SAVE

Your Speed Key is now programmed. Repeat this procedure for each EC-8 in the system. If more than one Key Phone is being used, repeat the procedure for each Key Phone.

B. Setting the Date and Time on the Key Phone(s)

The date and time on the Key Phone are for your convenience only—they are not used by any other component of the system.

1. Press FEATURE, then #*
2. LCD readout will ask for a PASSWORD. Enter "000000".
3. Press SHOW
4. Press NEXT button until RESOURCE appears on the LCD
5. Press SHOW
6. Press NEXT button until SYSTEM TIME appears on the LCD
7. Press SHOW, then press CHG
8. Enter Year
9. Press SAVE, NEXT then CHG
10. Enter Month
11. Repeat the SAVE, NEXT, CHG procedure for Date, Day of the Week, Hour of the Day and Minutes
12. After saving the minutes, Press RELEASE

C. Programming the EC-8s

1. Pick up the handset and press the Speed Key button of the EC-8 you wish to program. You should hear 3 beeps from the consolidator.
2. Enter the EC-8 Guard code, *31**. You should hear one beep.
3. Enter *37* to put the EC-8 into Local Mode. You should hear one beep.

Your EC-8 is now programmed for use with an SC-24. Repeat this procedure for each EC-8. For more information please see the EC-8 Manual.

D. Programming the Emergency Phones

Note: After entering codes into an Emergency Phone, you should hear one beep if the code was accepted, two beeps if it was not accepted.

1. Pick up the handset and press the Speed Key button for the EC-8 that contains the Emergency Phones you wish to program. You should hear 3 beeps from the consolidator.
2. To route the EC-8 to an emergency phone, press *4X* where "X" represents the port number on the EC-8 (e.g. *45* for emergency phone #5). The emergency phone will answer with a series of tones.
3. Enter the Emergency Phone Guard Code, *4**.
4. Although the Emergency Phones will not be dialing an outside phone number, they do require a number in the programming field. Enter a dummy phone number *13*1234567*.

Your Emergency Phone is now programmed for use with an SC-24. Repeat this procedure for all phones. There are many advanced programming options available. These represent only the simplest instructions necessary to make all Emergency Phone models function with an SC-24. For more detailed programming information, please see the Emergency Phone Manual.

Operation

IV. Operation

A. Answering Calls from Emergency Phones

When an Emergency Phone that is part of the SC-24 system calls in, the Key Phone will ring and the light for the Speed Key of that Emergency Phone's EC-8 will illuminate. Pick up to answer, or press the Speed Key to answer using the speakerphone.

If a second call comes in on a different EC-8, that EC-8's Speed Key will blink and you will hear a call-waiting type beep. You may put the first call on hold to answer the incoming call. If a second call comes in from the same EC-8 as an active call, the EC-8 will queue the call until the first call from that EC-8 has been completed. At that time, the call will automatically be put through to the Key Phone.

B. Calling an Emergency Phone from the Key Phone

The Key Phone can call into an Emergency Phone and activate it in order to monitor locations as situations require. Please be certain to obey all federal, state and local laws when using this feature.

To call an Emergency Phone press the Speed Key of the EC-8 to which it is connected. After the Consolidator answers with three beeps, enter *4X* to reach port #X. After a short pause the Emergency Phone will send a series of audible coded tones to indicate that the Phone has answered.

Enter the Guard Access Code: (default is *4**). If you wish to talk with someone at the unit enter *5*. (Note: If you have entered any optional programming codes, these instructions may vary. Please consult your Emergency Phone Manual.) If you are calling to program or reprogram a phone, you do not need to enter *5*.

V. Special Notes for Talk-A-Lert

A. Extra Components required

To use Talk-A-Lert with an SC-24 system, a digital to analog converter (Talk-A-Phone Model CA-2) is required. In addition, you will need a splitter that takes a standard rj11 connector and converts it to two of the smaller, phone handset connectors and an extra telephone handset cord with these smaller connectors.

B. Connecting the Base Station

When using Talk-A-Lert with an SC-24, there should be a jumper connected to the bottom of the Base Station circuit board between the center pins (see Figure 3). Once the jumper has been connected, reassemble the unit and plug the headset splitter into the Line port on the Base Station. Then connect the Key Phone's handset into one side of the splitter and connect the other side to the jack in the Key Phone where the handset would normally connect.

C. Connecting the CA-2 Digital-Analog Converter

From the PBX port on the CA-2, connect to Station 11 on the Punch Down Block. Then connect the modem to phone line 1 on the CA-2.

D. Special Programming for Talk-A-Lert

In your Talk-A-Lert database, you must program the phone number to dial when polling an Emergency Phone. To reach an EC-8, Use #0 followed by the CO Line number that the EC-8 is connected to on the Punch Down Block. Then enter *4X* for port X on that EC-8. For example, the phone number to poll phone 6 on the EC-8 that is connected to CO Line 3 would be #03*46*.

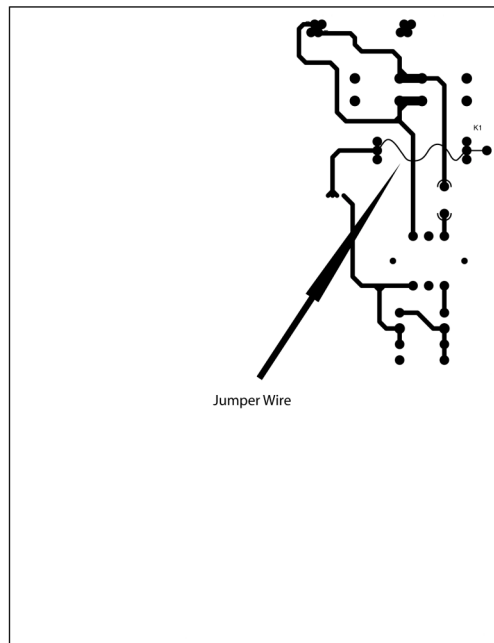


Figure 3. Connecting the Jumper on the Base Station

Warranty

VII. Talk-A-Phone Co. Limited Warranty

Talk-A-Phone Co. warrants Talk-A-Phone equipment against any defects in material and workmanship, under normal use, for a period of twelve (12) months from date of installation, provided that Talk-A-Phone receives a completed "Installation Certification" certifying the date on which the system has been installed. An "Installation Certification" card is enclosed with every unit. In the event that no "Installation Certification" is received by Talk-A-Phone, the twelve (12) months will commence on the date of shipment by Talk-A-Phone. The warranty period for Models ETP-PM, ETP-MT and ETP-MT/R is five (5) years, under the same terms and conditions.

In the event this product is found by Talk-A-Phone to be defective within the warranty period, Talk-A-Phone's only obligation and your exclusive remedy shall be the repair and/or replacement of any defective parts, provided the equipment is returned to Talk-A-Phone Co., 5013 N. Kedzie Ave., Chicago, IL 60625. It is expressly understood that Talk-A-Phone shall have no obligation to furnish labor, nor pay for the labor of any third parties, nor bear the expense of shipping defective products for repair. This warranty shall not apply if Talk-A-Phone determines that the defect was caused by improper use or installation, or damage caused to the equipment by others.

THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE.