

SERVICE MANUAL

FOR

MODEL SSW-323-E (FORMERLY MODEL SSW-325-E)

STAINLESS STEEL WALL TELEPHONE

EQUIPPED WITH ADT1.03 FIRMWARE



Serving the Telephone Industry Since 1930

*Communication Equipment
& Engineering Company*

519 W. South Park Street
Okeechobee, FL 34972

Voice: 863-357-0798

Fax: 863-357-0006

Sold by:



IMPORTANT INFORMATION FOR CUSTOMER

Please fill in before you continue.

The following information is necessary when calling CEECO for assistance.

MODEL NUMBER	MODEL SSW-323-E STAINLESS STEEL WALL TELEPHONE EQUIPPED WITH ADT1.03 FIRMWARE.
SERIAL NUMBER	
DATE MANUFACTURED	
LOCATION INSTALLED	

For us to better serve you, please have this information available when calling for technical support.

CEECO Communication Equipment and Engineering Company

519 W. South Park Street
Okeechobee, FL 34972

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1.0 INTRODUCTION

The practices in this manual provide installation and maintenance information for the CEECO Model SSW 323-E telephone, equipped with ADT1.03 firmware.

The information in this manual is subject to change without notification. For information not included in this manual, please call or write:

CEECO

Customer Service
519 W. South Park Street
Okeechobee, FL 34972

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2.0 GENERAL

- 2.1 The CEECO Model SSW-323-E speed-dial telephone is a microprocessor-based telephone designed to offer single-button speed-dialing and deter fraud. The microprocessor keeps the transmitter muted (off) during periods of dial tone to deter the use of hand held dialers. Attempts to “hookswitch-dial” a number by flashing the hook-switch will cause the microprocessor to “reset” and open the phone line.
- 2.2 One of twelve preprogrammed numbers, of up to twenty three (23) digits in length, may be speed-dialed by pressing one button on the Single Button Access (SBA) keypad located on the front of the telephone.
- 2.3 Programming is accomplished via the 12-button SBA keypad.

NOTE: If the telephone is connected to a working telephone line during programming, various Central Office signals may be heard after the # key is pressed (i.e. fast busy tone, operator reorder tone, etc...) Please disregard any such tones, as they will have no bearing on the programming.

3.0 PROGRAMMING

Note: Before programming, it is recommended that you ground yourself to prevent ESD damage to the printed circuit boards. Touch a metal ground source such as a water pipe or the unit's front metal plate.

- 3.1 Using a security tool, CEECO part number 301-037, loosen and remove the security screw and separate the telephone case from the backplate.
- 3.2 Connect the SSW-323-E Speed-Dialing Telephone to a working telephone line, or DTMF test set.
- 3.3 You will use the 12-button SBA keypad to program the phone. It is important to be slow and deliberate when pressing the keys during programming. A missed or partial tone could result in improper programming. Each SBA button corresponds to a normal telephone keypad number as illustrated in Sec. 3.10.
- 3.4 Looking at the rear of the telephone, locate the two plastic **mini-jumpers** on the corner of the PC board. Move them to the **“ON”** position, as depicted on the last page of this manual.
- 3.5 **Lift the handset** and wait for dial tone to begin programming.
- 3.6 Enter # **9 7** on the keypad. This will **clear all** field programmable memory.
- 3.7 If it is necessary for the phone to **automatically dial a number** when the handset is lifted, enter # **1 9** followed by the desired number. If this is not a desired function, proceed to section 3.2. For example, entering #199 will program the phone to automatically dial a “9”, when the handset is lifted. The desired number may be up to 23 digits in length. Be sure to record your number in the #19 Auto-Dial Table below for future reference.

#19 AUTO-DIAL TABLE:

- 3.8 Enter # **0 0**, which will access the **telephone options** programming location. You will then enter a series of 4 digits, which will be selected from the options on the next page. By entering 0 or 1 into the each of the 4 digits, the phone is customized to your particular installation. You must make a selection for all four digits. Examine the options and make your entries now.

PROGRAMMING CONTINUED...

LOCATION #00:

Digit 1

- 0 Tone dial mode (DTMF).
- 1 Rotary dial mode

Digit 2

- 0 No incoming calls allowed
- 1 Incoming calls allowed.

Digit 3:

- 0 Narrow dial tone window (436Hz to 336 Hz).
- 1 Wide dial tone detect window (590Hz to 250Hz)(**Recommended**).

Digit 4

- 0 10 PPS (pulses per second)
- 1 20 PPS (pulses per second)(**Choose this if Digit 1 is 0**).

EXAMPLE: Entering #000111 will program the phone to operate in the tone dial mode, allow incoming calls, use a wide dial tone detect window, and arbitrarily select a “1” under Digit 4 for tone dialing.

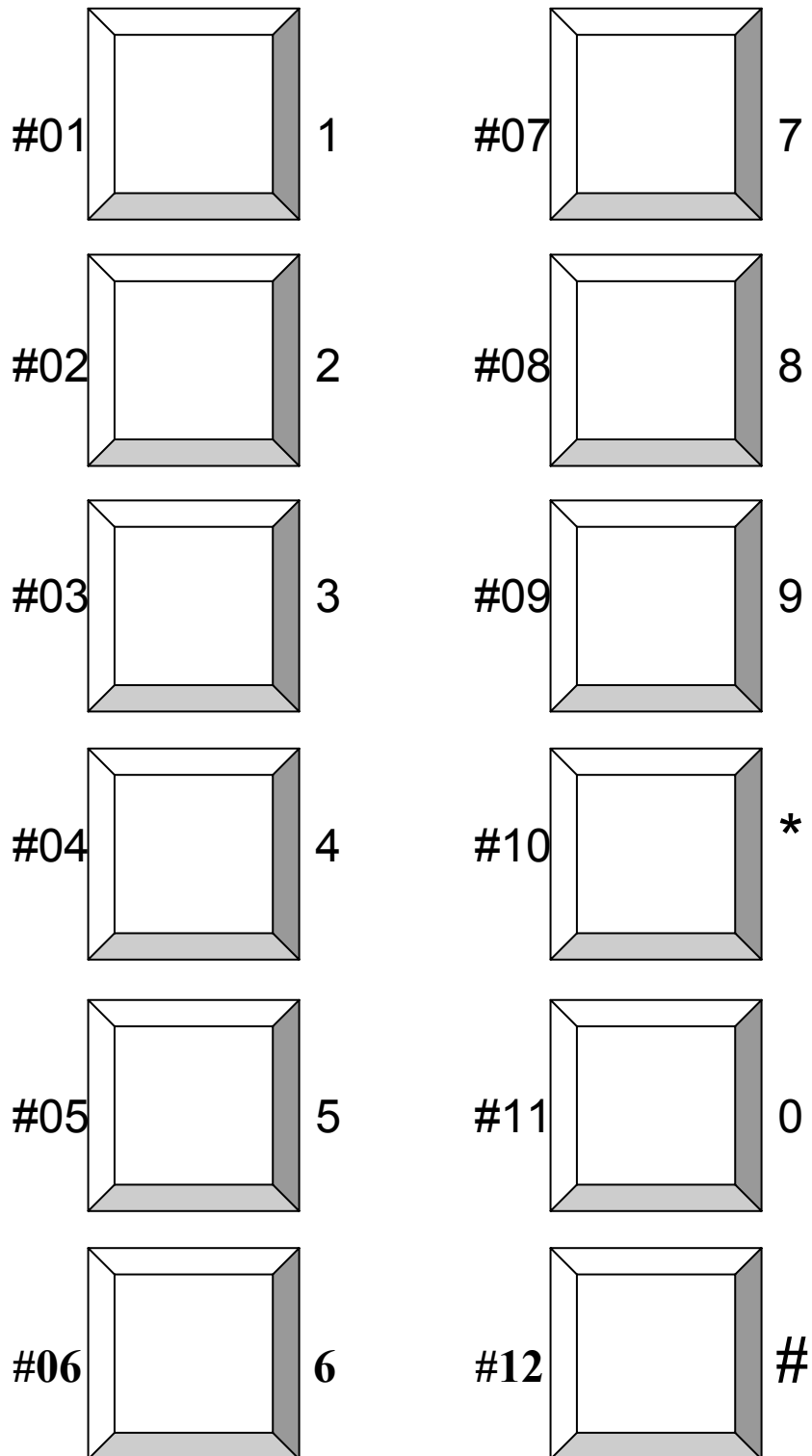
- Be sure to record your selections in the Options Table below for future reference.

OPTIONS TABLE: # 0 0 _ _ _ _

- 3.9** It is time to program the **speed dial numbers**. A total of twelve (12) speed numbers (one for each key) may be programmed into the phone. Each key has a corresponding programming code, consisting of the # key and two digits (**#01 thru #12**). Please refer to the diagram on the next page, which depicts the keys and their corresponding programming codes. **Enter the programming code, followed by the desired speed dial number**. For example, entering #015551212 will program the phone to dial the number 555-1212, when the “1” key is pressed. You may use as many of the twelve locations as you so choose. Each location will hold a number of up to 23 digits in length. You may program the locations one right after the other. If you make a mistake or wish to change a particular number, just re-enter the code for the particular key, followed by the desired number.

3.10 SBA KEYPAD DIAGRAM

Please refer to the diagram below, which shows the programming location to the left of the key and the corresponding key number to the right.



PROGRAMMING CONTINUED...

- Be sure to record your programmed numbers in the Speed Dial Table below for future reference.

SPEED DIAL TABLE:

#01 _____	#07 _____
#02 _____	#08 _____
#03 _____	#09 _____
#04 _____	#10 _____
#05 _____	#11 _____
#06 _____	#12 _____

- 3.11** Programming is now completed. **Hang up** the phone and return the two plastic **mini-jumpers** to the **“OFF”** position, as depicted on the last page of this manual. The phone is now ready for Testing/Operation.

4.0 TESTING/OPERATION

- 4.1** With the phone connected to a working telephone line or DTMF test set, lift the handset. If the phone was programmed to auto dial a number, it should automatically dial it at this time. If not, repeat sections 3.4, 3.5, 3.7, 3.11 only. If this does not cure the problem, please refer to section 10.2. The handset transmitter will remain muted until a speed dial number is released.
- 4.2** Press any key on the SBA keypad that has a number programmed into it. The programmed number should speed dial at this time. If not, repeat sections 3.4, 3.5, 3.9, and 3.11 only. If this does not cure the problem, please refer to section 10.2. The handset transmitter should be enable after the speed dial number is released. Normal phone operation should follow.
- 4.3** If the called party hangs up and the calling party tries to “hold” the line. The phone will reset itself and mute the handset transmitter. When dial tone is received, the phone will emit an error tone (three short tones) and reset itself again muting the transmitter. The phone must be hung up to be used again. This is an anti-fraud feature.
- 4.4** Place a call to the phone. If the phone was programmed to accept incoming calls, the handset transmitter will be enabled approximately three seconds after the call is answered. Otherwise, the transmitter will not be enabled and the answering party will not be heard.
- 4.5** Attempt to “hookswitch-dial” by tapping the hookswitch quickly. The telephone should hang up, reset itself and perform as it was programmed.

5.0 RECOMMENDED TOOLS AND TEST EQUIPMENT

Volt/Ohm Meter	Security Tool, CEECO Part Number 301-037
5/16" Nut Driver	Flat Blade Screw Driver
3/8" Nut Driver	DTMF Test Set

6.0 INSTALLATION NOTES AND ASSEMBLY INSTRUCTIONS

- 6.1 Using a 301-037 security tool (sold separately), loosen and remove the security screws.
- 6.2 The security tool is for a standard 5/32 ∇ button head screw generally used on the framework of a phone booth.
- 6.3 Separate the cover assembly from the backplate assembly by pulling the bottom forward and pushing up.
- 6.4 The backplate assembly is designed for mounting on any flat vertical surface. Four mounting holes are provided.
- 6.5 Run the inside station wire through the backplate assembly and terminate on the RJ11C terminal block on the backplate.
- 6.6 The use of a gas tube or carbon station protector is recommended. The station ground should not exceed 50 ohms.
- 6.7 Plug the modular line cord from the cover assembly into the RJ11C terminal block.
- 6.8 Dress the line cable away from the locking screw and install the cover assembly by placing the two tabs into the two corresponding slots. Secure the cover assembly by tightening the security screw.

*******WARNING*******

- A. **Never install telephone wiring during a lightning storm.**
- B. **Never install telephone jacks in wet locations unless the jack is specifically designed for wet locations.**
- C. **Never touch uninsulated telephone wires.**
- D. **Use caution when installing or modifying telephone lines.**

7.0 SPECIFICATIONS

INPUT POWER:	C.O. Line powered
LOOP CURRENT:	23 mA min., 80 mA max.
IMPEDANCE:	600 ohms
SIGNALING:	rotary (pulse dialing)
OUTPUT:	10 PPS OR 20PPS
HEARING AID COMPATIBLE	Meets EIA standards
ENVIRONMENTAL:	Temperature: 0°C to 50°C Humidity: 20% to 90% non-condensing
PROGRAMMING	Via unit keypad
TELEPHONE PANEL	Brushed 16-gauge stainless steel
DIMENSIONS:	5∇ wide x 10 3/4∇ high x 5½" deep Handset on hook
MOUNTING	Vertical surface mount
MEMORY RETENTION:	Lithium battery, long life
FCC REGISTRATION	BW88T7-13823-TE-T
UL LISTED NO.	6OF5
RINGER EQUIVALENCY	0.8A
TYPE JACK:	RJ11C

8.0 PARTS LIST

QUANTITY	DESCRIPTION	PART NUMBER
1	Line cord	301-018
1	Stainless steel cover	325-101
1	Stainless steel backplate	321-056
1	Handset, 29" armored cord	301-004
1	Handset swivel	301-016
1	Hookswitch cradle	301-588
1	Tongue and bracket assy.	301-581
2	Microswitch	301-570
1	SBA panel	306-105
1	SBA cable	700-008
1	Network	301-009
1	Network cable	650-570
1	MCRK-2 PC board	650-521
1	Modular Jack Mack	301-054
1	Security screw	321-016
1	Rubber grommet	301-052

ACCESSORIES

1	Handset, 18" w/lanyard	301-106
1	Metal button keypad	705-110
1	Keypad cable	700-008
1	security tool	301-037

9.0 FCC NOTICE

9.1 FCC REGISTRATION AND REPAIR INFORMATION

Your new telephone has been registered with the Federal Communication Commission (FCC) in accordance with Part 68 of it's rules. The FCC requires that you be advised of certain requirements involving the use of this telephone.

9.2 CONNECTION AND USE WITH THE NATIONWIDE TELEPHONE NETWORK.

The FCC requires that you connect this telephone to the Nationwide Telephone Network through a registered jack provided by the Telephone Company in your area. This jack is a modular outlet, which you can order from your local telephone company.

9.3 NOTIFICATION TO THE TELEPHONE COMPANY

Before connecting this telephone, the FCC requires that you notify your local telephone company business office. The number is in the front of your phone book.

Tell them:

The "line" to which you will connect the telephone (that is, your phone number), the telephone's FCC registration number and ringer equivalence number. These numbers are listed in section 7.0

The FCC further requires that you notify your local telephone company when permanently disconnecting this telephone.

10.0 REPAIR AND RETURN INFORMATION

10.1 WARRANTY REPAIR

Any device returned requiring warranty service, repair or credit must be accompanied with a "Return Material Authorization" (RMA) form. It must include return shipping instructions, original purchase order number, and a special marking instruction. A description of the trouble observed must be attached to the defective unit. This information must be inside the shipping container.

10.2 DIRECT ALL INQUIRES TO:

CEECO

Repair Department
519 W. South Park Street
Okeechobee, FL 34972

(863) 357-0798 Voice
(863) 357-0006 Fax

10.3 NON WARRANTY REPAIR

CEECO will repair equipment out of warranty for a set charge, plus parts. The customer must pay the shipping costs for both directions.

10.4 RETURN FOR CREDIT

Material may be returned for credit only with prior approval. Material authorized for return is subject to a 20% restocking charge based on the manufacturer's list price. Return Material Authorization must be requested no later than 60 days after original shipment.

11.0 WARRANTY POLICY

11.1 GENERAL

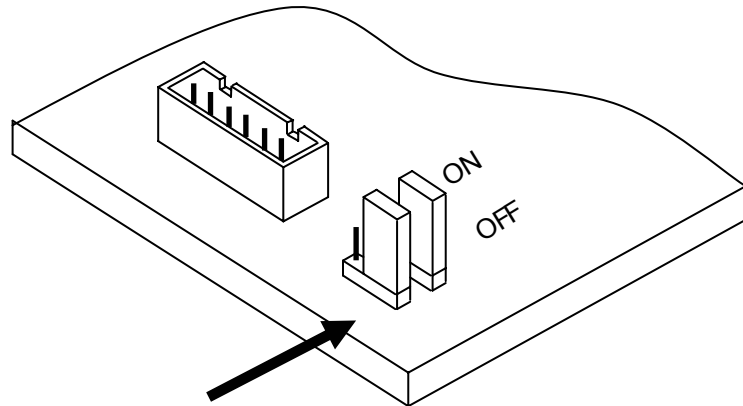
CEECO products are guaranteed to be free of defects in material and workmanship for a period of 365 days from the date of original purchase. CEECO's obligation under this warranty is limited to repair or replacement of any part found to be defective by CEECO. Under no circumstances shall CEECO be liable for loss, damage, cost of repair, or consequential damages of any kind which have been caused by neglect, abuse, acts of GOD or improper of equipment.

11.2 PRINTED CIRCUIT BOARDS

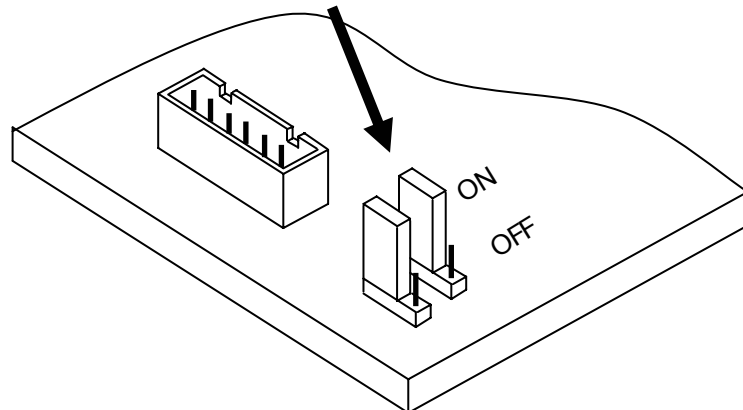
Printed circuit boards should not be field repaired. If a unit is found to be faulty, replace it with another unit and return the faulty unit to CEECO for repair. Modifications by anyone other than CEECO will void the warranty.

12.0 DIAGRAM

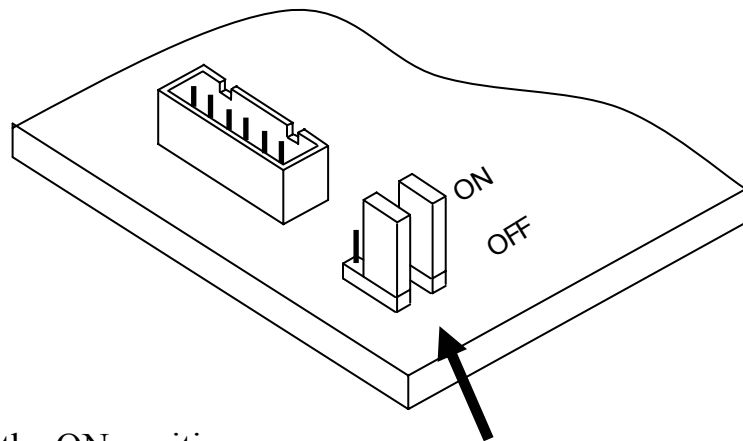
Locate the mini jumpers on the corner of the PCB.



Move the mini jumpers to the **ON** position **BEFORE** going off-hook.



When programming is completed, move the mini jumpers to the **OFF** position.



NOTE:

Do not leave the mini jumpers in the ON position, this will decrease battery life.