SERVICE MANUAL

FOR

MODEL WPP-333-E
WEATHERPROOF TELEPHONE

OR

MODEL SSP-313-E
STAINLESS STEEL PANEL TELEPHONE

EQUIPPED WITH ADT1.03 FIRMWARE

CEECO

Serving the Telephone Industry Since 1930

Communication Equipment	**519 W South Park Street**
& Engineering Company	**Okeechobee, FL 34972**
	Voice: 863-357-0798
	Fax: 863-357-0006

IMPORTANT INFORMATION
FOR
CUSTOMER

Please fill in before you continue.

The following information is necessary when calling CEECO for assistance.

MODEL NUMBER	MODEL WPP-333-E OR SSP-313-E 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
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TABLE OF CONTENTS

1.0   INTRODUCTION

The practices in this manual provide installation and maintenance information for the CEECO Model WPP-333-E or Model SSP-313-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:

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2.0   GENERAL

2.1   The CEECO Model WPP-333-E or Model SSP-313-E Speed Dialer Telephone is a microprocessor-based telephone designed to deter fraud from hand held tone dialers and hookswitch dialing. The microprocessor keeps the transmitter muted (off) during periods of dial tone. Attempts to dial a number by "flashing" the hookswitch will cause the microprocessor to "reset" and open the 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) panel located on the front of the telephone.

2.3   Programming is accomplished via the 12 button SBA keypad, or an external, separately provided, modular keypad that plugs into the MCRK-2 printed circuit board during programming periods only.

3.0   PROGRAMMING

3.1   Using a security tool, CEECO part number 301-037, loosen and remove the security screws and separate the telephone assembly from the mounting or housing.

3.2   Connect the Telephone to a working telephone line or a DTMF test set.

3.3   You may use the 12-button SBA keypad to program the phone. Each SBA button corresponds to a normal telephone keypad number as illustrated in sec. 3.7.

If you want to use an external programming keypad, plug the Modular Connector of the programming keypad into the only empty eight pin connector of the MCRK-2 Board. The connector is polarized and must be properly oriented.

3.4   Move the two mini-jumpers to the "ON" position, as depicted in the diagram on the last page of this manual. Lift the handset (off hook condition). Dial #97 to erase all field programmable memory. If you only want to change part of the memory then do not dial #97.

3.5   To access the PBX number location dial "#" followed by "19" and then enter the PBX access code or number. This would be used in situations where you have to dial a number, such as 9, before you can get an outside line. A number of up to twenty-three (23) digits may be entered if needed. Be sure to record the access code or number at the top of the next page for future reference.

PROGRAMMING CONTINUED

PBX LOCATION CONTENTS

#19 _ - _ _ _ - _ _ _ - _ _ _ _

3.6   Each button on the (SBA) Single Button Access keypad has it's own memory location for speed dialing. To access one of these memory locations, Dial the "#" (the pound key), followed by the two digits that correspond to that location. For example, if you want to program a number into the first button (#1 key), press #01 and then enter the number to be stored in that location. Each of the locations can be programmed in continuous succession without starting over for each one. For example, enter #015551212#027775555 #03911…(continue until all desired locations are programmed).

3.7   The following table shows the location memory code assigned to each of the buttons on the (SBA) keypad. The spaces to the right of the diagram are provided so you may write the numbers down as you enter them in your phone for future reference.

SBA	PANEL LAYOUT	CODE	SPEED DIALED NUMBER
01	07	#01	_ - _ _ _ - _ _ _ - _ _ _ _
		#07	_ - _ _ _ - _ _ _ - _ _ _ _
02	08	#02	_ - _ _ _ - _ _ _ - _ _ _ _
		#08	_ - _ _ _ - _ _ _ - _ _ _ _
03	09	#03	_ - _ _ _ - _ _ _ - _ _ _ _
		#09	_ - _ _ _ - _ _ _ - _ _ _ _
04	(*)10	#04	_ - _ _ _ - _ _ _ - _ _ _ _
		#10	_ - _ _ _ - _ _ _ - _ _ _ _
05	(0)11	#05	_ - _ _ _ - _ _ _ - _ _ _ _
		#11	_ - _ _ _ - _ _ _ - _ _ _ _
06	(#)12	#06	_ - _ _ _ - _ _ _ - _ _ _ _
		#12	_ - _ _ _ - _ _ _ - _ _ _ _

PROGRAMMING CONTINUED

3.8   Location "00" is the option table number. By entering 0 or 1 into each of the following 4 digits, the phone is customized for the particular installation.

3.9   If you have distorted dial tone at your site or your dial tone frequencies are out of specification then it may help to set digit 3 to a 1 to allow a wider range of frequencies for dial tone.

Enter "#00" followed by the four digits of your choice now.

LOCATION #00:

Digit 1:
0   Tone Dial Mode.
1   Rotary Dial Mode.

Digit 2:
0   No incoming calls allowed.
1   Incoming calls allowed.

Digit 3:		Acceptable Frequencies
0	Narrow dial tone window.	436Hz to 336Hz
1	Wide dial tone window.	590Hz to 250Hz

Digit 4:
0   10 PPS (enter 0 if Digit 1 was set for Tone Dial Mode.)
1   20 PPS

3.10   Return the two blue mini-jumpers to the "OFF" position, as depicted on the last page of this manual.

3.11   Remove the programming keypad if an external keypad was used.

3.12   Replace the telephone assembly in its mounting or housing and replace and tighten the security screws.

4.0 TESTING

4.1 Lift the handset, the telephone will wait for dial tone. When dial tone is received the PBX number will be dialed automatically if programmed as such. Otherwise, the keypad is active for speed dialing. The handset transmitter will be muted.

4.2 Press an (SBA) keypad button. The programmed number will be speed dialed. The handset transmitter should be on now.

4.3 Keep the instrument off hook and allow the called party to hang up first. Wait for the central office equipment to time out and return dial tone.

4.4 As soon as dial tone is received, three (3) tones will be heard. The phone will momentarily open the line. The phone will then reset for another call. The handset transmitter will be disabled.

4.5 Place a call into the telephone.

4.6 If incoming calls are not allowed, the handset transmitter will not turn on.

4.7 If incoming calls are allowed, the transmitter will turn on approximately three (3) seconds after the incoming call is answered.

4.8 Attempt to "Hookswitch Dial" by tapping quickly on the hookswitch. The telephone should hang up, seize the telephone line again and dial the programmed number again, if so programmed.

5.0 RECOMMENDED TOOLS AND TEST EQUIPMENT

Volt Meter
1/4" Nut Driver
Flat Blade Screw Driver
Security Tool 301-037

6.0   INSTALLATION 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 the phone booths.

6.3   Separate the telephone assembly from the mounting or housing. Mountings or housings should be installed as is appropriate for each particular item and installation. Be sure that installation is done in accordance with all applicable laws and codes.

6.4   Run the inside station wire through the mounting or housing and terminate on to the RJ11C terminal block.

6.5   The use of a gas tube station protector is recommended. The station ground should not exceed 50 ohms.

6.6   Plug the modular line cord from the telephone assembly into the RJ11C terminal block.

6.7   Dress the line cable away from hardware, which might cause damage to the cabled. Secure the telephone assembly by installing and tightening the security screws.

6.8   When servicing the phone, be sure the PC board does not contact metal parts, otherwise permanent damage may occur to the board.

*****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 or terminals unless the telephone line has been disconnected at the network interface.**

D.   **Use caution when installing or modifying telephone lines.**

7.0   SPECIFICATIONS

INPUT POWER:	C.O. LINE POWERED
LOOP CURRENT:	23MA MIN. 80MA MAX.
IMPEDANCE:	600 OHMS
SIGNALING:	DTMF, 70MS TONE, 50MS SPACING
OUTPUT:	-4.0 TO -6.0DBM
SIGNALING:	ROTARY (PULSES)
OUTPUT:	10 PPS/50 % BREAK. 20 PPS/50 % BREAK.
HEARING AID COMPATIBLE:	MEETS EIA STANDARDS
ENVIRONMENTAL:	TEMPERATURE 0OC TO 50OC HUMIDITY 20%-90%
PROGRAMMING:	VIA DTMF KEYPAD.
TELEPHONE PANEL:	BRUSHED 14 GA. STAINLESS STEEL
DIMENSIONS:	7 1/6∀ W X 11 1/4∀ H X 4 1/4∀ D (HANDSET ON HOOK).
MOUNTING:	VERTICAL SURFACE MOUNT
WEIGHT:	APPROXIMATELY 4 LB.
WEATHERPROOF HOUSING:	CAST ALUMINUM
DIMENSIONS:	9 1/2" WIDE X 12 5/8" HIGH X 8" DEEP (INCLUDING DOOR).
MOUNTING:	4 HOLES SPACED 8" X 5 7/8" X 13/32"
WEIGHT:	APPROXIMATELY 12 POUNDS

SPECIFICATIONS CONTINUED

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 NO.
1	Line Cord	301-018
1	Stainless Steel Panel	331-010
1	Cast Aluminum Weather Proof Housing	331-005
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	301-054
1	Security Screw	321-016
1	Rubber Grommet	301-052

ACCESSORIES:

QUANTITY	DESCRIPTION	PART NO.
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   REPAIR & RETURN POLICY

9.1   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 special marking instructions. A description of the trouble observed must be attached to the defective unit. This information must be inside the shipping container.

9.2   DIRECT ALL INQUIRIES TO:

CEECO
Repair Department
863-357-0798- telephone
863-357-0006- facsimile
info@ceeco.net
www.ceeco.net

9.3   NON-WARRANTY REPAIR

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

9.4   RETURN FOR CREDIT

Material returned for credit is subject to a 20% restocking charge based on the manufacturers list price.

9.5   EXCHANGE POLICY

If a replacement unit is required it will be shipped in the most expedient manner consistent with the urgency of the situation. Please contact "customer service" for instructions regarding exchange of modules or printed circuit boards.

10.0 WARRANTY

10.1   GENERAL

CEECO guarantees its products to be free from 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 or improper operation of equipment.

CEECO will repair or replace any unit during this period if found to be defective for reasons other than abuse and improper use or improper installation. It is the buyers responsibility to return the defective unit to the factory. CEECO will then repair or replace any defective parts and return them to the buyer free of charge.

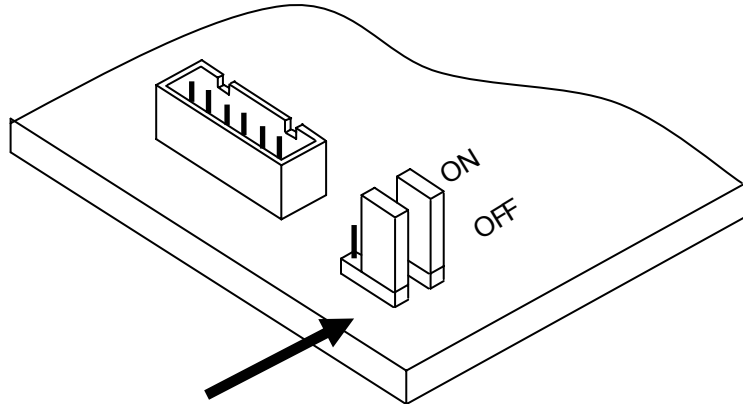## 10.2   PRINTED CIRCUIT BOARDS

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 any one other than CEECO will void the warranty

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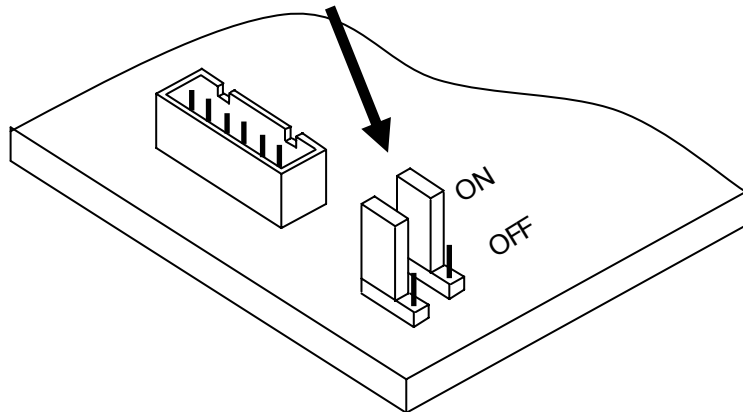
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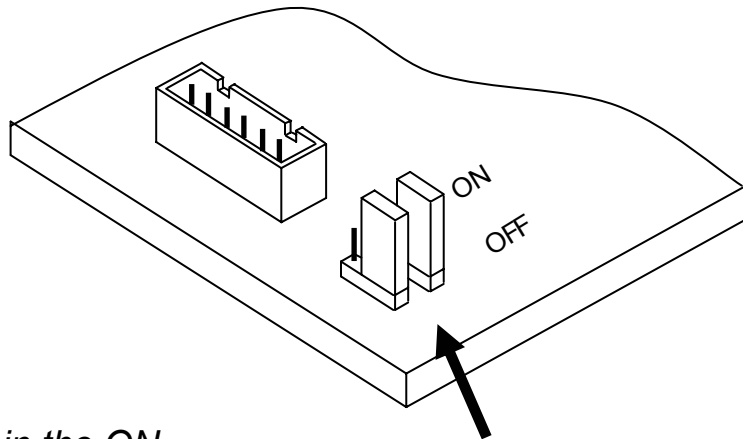
11.0   DIAGRAM

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.