

# SERVICE MANUAL

## FOR

**MODEL WPP-531-D**  
**WEATHERPROOF TELEPHONE**  
**WITH OPTIONAL ADA FEATURE**

## OR

**MODEL SSP-511-D**  
**STAINLESS STEEL PANEL TELEPHONE**  
**WITH OPTIONAL ADA FEATURE**

**EQUIPPED WITH SPK1.07UNVLR1 FIRMWARE**



*Serving the Telephone Industry Since 1930*

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*Communication Equipment  
& Engineering Company*

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1580 NW 65<sup>th</sup> Avenue

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Plantation, FL 33313

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Voice: 954-587-5430

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Fax: 954-587-5440

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# IMPORTANT INFORMATION FOR CUSTOMER

Please fill in before you continue.

The following information is necessary when calling CEECO for assistance.

MODEL NUMBER	MODEL WPP-531-D OR SSP-511-D EQUIPPED WITH SPK1.07UNVLr1 FIRMWARE AND OPTIONAL ADA FEATURE
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 & Engineering Company

1580 NW 65<sup>th</sup> Avenue  
Plantation, FL 33313

(954) 587-5430 Voice  
(954) 587-5440 Fax

**CEECO**  
*Communication Equipment & Engineering Company*  
**PROPRIETARY**

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## 1.0 INTRODUCTION

The practices in this manual provide installation and maintenance information for Model WPP-531-D or Model SSP-511-D Telephone with optional ADA feature, equipped with SPK1.07UNVLR1 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  
1580 N.W. 65 Avenue  
Plantation, Fl. 33313  
  
(954) 587-5430  
(954) 587-5440 FAX

## 2.0 GENERAL

- 2.1 The CEECO hands free telephone is a sturdy, vandal resistant, stainless steel speakerphone with an optional ADA feature (red/green LED for visual call progress indication). Instead of a hookswitch and handset, the telephone has a press to start/press to stop button for the initiation and termination of phone calls. Manual volume control is also provided inside the telephone on the PC board.
- 2.2 The microphone is muted during periods of dial tone to deter the use of hand held dialers to make fraudulent calls.
- 2.3 Incoming calls may be allowed or blocked depending on the programming.
- 2.3 Programming is accomplished by way of a DTMF keypad, which is provided separately.

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### 3.0 PROGRAMMING

**NOTE:** It is recommended that you ground yourself to prevent ESD damage to the PCB(s).

- 3.1 **Connect the telephone** to a working telephone line or a DTMF test set.
- 3.2 Locate the pair of plastic **mini-jumpers** along the edge of the PC board. Move them to the “**on**” or inner most position as depicted in the diagram on the last page of this manual.
- 3.3 **Press** the “CALL & HANGUP” **button** and wait for dial tone before entering programming digits.
- 3.4 Begin by entering **#97#18#**, which **will clear all** user programmable memory.

**NOTE:** Once the # key has been entered, you may hear a fast busy tone, an operator recording, or other Central Office signals. Please disregard these sounds and continue programming, as they will have no effect on the programming.

- 3.5 Each programming location is accessed by dialing the # sign and the corresponding two digit code. The previous contents of the location are automatically erased when the location code is accessed.
- 3.6 Location “00” is the telephone options location. Please review the options on the next page. By entering a selected number of 0-9 into each of the ten digits, the phone is customized for the particular installation. **Enter #00, followed by a series of ten digits**, as selected from the next page.

## PROGRAMMING CONTINUED...

### Location #00:

#### Digit 1

0 Always 0 for this model.

#### Digit 2

0 No incoming calls allowed.  
1 Incoming calls allowed.

#### Digit 3

0 No conversation time-out.  
1-9 Minute(s) conversation time-out.

#### Digit 4

0 Always 0 for this model.

#### Digit 5

0 Always 0 for this model.

#### Digit 6

0 Deactivate ADA feature (red/green LED).  
9 Activate ADA feature (red/green LED).

#### Digit 7

0 Always 0 for this model.

#### Digit 8

0 **Do not** dial PBX access number stored in location #18.  
1 Dial PBX number stored in location #18.

#### Digit 9

0 Always 0 for this model

#### Digit 10

0 No wink detect.  
1-9 Length of the wink detect.  
(1=50ms incremental to 450 ms. 5 is recommended).

- Be sure to log your entries here for future reference:

(OPTION TABLE) #00  $\frac{0}{1}$   $\frac{0}{2}$   $\frac{0}{3}$   $\frac{0}{4}$   $\frac{0}{5}$   $\frac{0}{6}$   $\frac{0}{7}$   $\frac{0}{8}$   $\frac{0}{9}$   $\frac{0}{10}$

### **EXAMPLE:** Dial #00 0160000005

Phone will be set as follows:

- Digit 1- Always 0.
- Digit 2- Incoming calls allowed.
- Digit 3- 6 minute conversation time out.
- Digit 4- Always 0.
- Digit 5- Always 0.
- Digit 6- ADA deactivated.
- Digit 7- Always 0.
- Digit 8- Do not dial PBX access number.
- Digit 9- Always 0.
- Digit 10- 250 ms wink detect.

## PROGRAMMING CONTINUED...

- 3.7** If it is necessary for the telephone **to automatically dial (Auto Dial) a number** when the “CALL & HANGUP” button is pressed, **enter #19, followed by the desired number**. The number may range from 1-11 digits. The time-out disconnect feature (if programmed) will start after this number has been dialed. If this is not a desired function, please proceed to the next section.

**EXAMPLE:** Enter #19 5551212. This will cause the phone to automatically dial the seven-digit number, 5551212, when the “CALL & HANGUP” button is pressed.

- 3.8** If it is necessary for the telephone **to automatically dial a PBX or other access number, enter #18, followed by the desired number**. The number may range from 1-11 digits. Provided that a 1 was entered under Digit 8 in LOCATION #00, the number stored in location #18 will automatically dial first, followed by a 1 second pause, and then the number stored in location #19 will automatically dial. If this is not a desired function, please proceed to the next section.

**EXAMPLE:** Enter #18 18001234567. This will cause the phone to automatically dial the eleven digit 1800 number, followed by a 1 second pause, followed by the automatic dialing of the number stored in location #19.

- 3.9** **When programming is finished**, press the “CALL & HANGUP” button to **hang up** the phone. Return the two **mini-jumpers** to the “**off**” or outermost position, as depicted on the last page of this manual. Secure the telephone to its mounting. The phone is now ready for use.

## 4.0 OPERATION

To make a call, press the “CALL & HANGUP” button located on the front of the telephone and wait to hear dial tone. The LED will illuminate red at this time and the programmed auto-dial numbers will dial out on the line. The LED will flash red and green while the call is ringing. When the called party answers, the LED will turn GREEN after a maximum of four seconds (assuming the ADA feature is activated). When the call is complete, press the “CALL & HANGUP” button to hang up the phone. The call will be terminated and the LED will go out.

**NOTE:** If the telephone is being used to make emergency calls, CEECO cannot assume responsibility for the called party’s response.

## 5.0 RECOMMENDED TOOLS AND TEST EQUIPMENT

DTMF Test Set  
Volt/Ohm Meter  
3/8" Nut Driver  
5/16" Nut Driver  
Flat Blade Screw Driver  
Security Tool 301-064

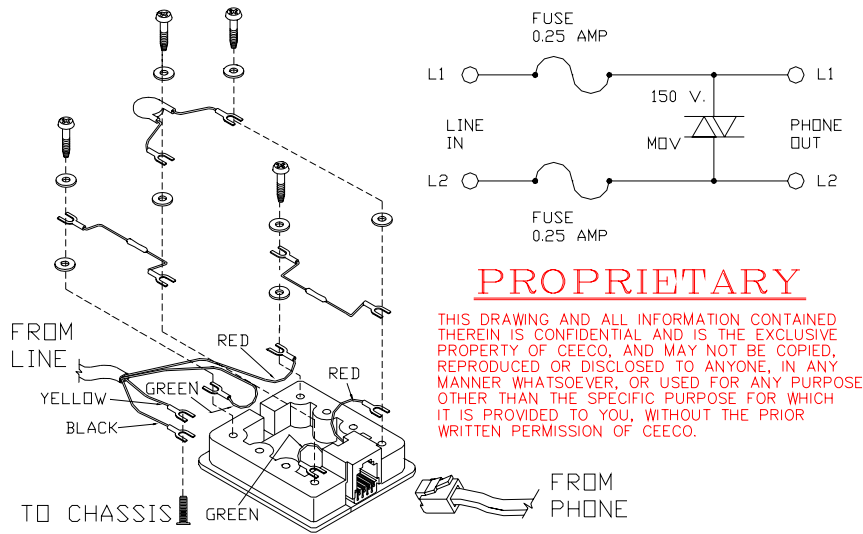
## 6.0 INSTALLATION NOTES AND ASSEMBLY INSTRUCTIONS

- 6.1 Using a 301-064 security tool (**sold separately**) remove the four security screws.
- 6.2 Separate the cover assembly from the Weatherproof housing or enclosure.
- 6.3 Run the inside station wire through the housing or enclosure and terminate the wire on the RJ11C modular jack, as depicted on the following page. The CEECO provided modular jack must be used, as it contains required over-voltage protection.
- 6.4 The use of a gas tube or carbon station protectors is recommended. The station ground should not exceed 50 ohms.
- 6.5 Plug the modular line cord from the PC board into the RJ11C terminal block.
- 6.6 Dress the line cord away from the security screws and seat the phone into the housing or enclosure.
- 6.7 Secure the telephone assembly by replacing and tightening the four security screws.

### \*\*\*\*\*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 OVER-VOLTAGE PROTECTION DIAGRAM



## 8.0 TESTING

- Action:** Connect the telephone to the telephone line.  
Press the “CALL & HANGUP” button.
- Reaction:** Dial tone is heard and red LED illuminates.  
Programmed number(s) automatically dials out.  
LED flashes red and green while ringing (optional ADA feature).
- Action:** The called party answers.
- Reaction:** A normal speakerphone conversation is allowed.  
The LED illuminates green (optional ADA feature) after a maximum of 4 seconds.
- Action:** Finish the conversation.  
Press the “CALL & HANGUP” button to hang up the phone.
- Reaction:** The LED goes out.  
The call is terminated.

## 9.0 SPECIFICATIONS

Input Power:	C.O. Line Powered (48-52 Volt Loop)
Loop Current:	30 mA min. 80 mA max.
Impedance:	600 Ohms.
Signaling:	DTMF, 70 ms tone, 50 ms spacing.
Output:	-4.0 to -6.0 dbm.
Environmental:	Temperature 0 °C to 50 °. Humidity 20% to 90%.
Programming:	Via DTMF keypad.
Dimensions: (SSP)	7 1/6" wide x 11 1/4" high x 4 1/4" deep (handset on hook).
Mounting:	Vertical surface mount.
Weight:	Approximately 4 lb.
Weatherproof Housing:	Cast aluminum
Dimensions: (WPP)	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:	12 pounds
Memory retention:	Non-volatile memory retention
UL listed no.:	60F5
FCC registration:	BW8USA-73021-MT-E
Ringer equivalence:	0.4a
Type jack:	RJ11C

**10.0 PARTS LIST**

<b><u>QUANTITY</u></b>	<b><u>PART NUMBER</u></b>	<b><u>DESCRIPTION</u></b>
4	331-006	Outer cover security screw.
1	301-018	Modular line cord.
1	301-054-UL	Modular Connector (RJ11C).
1	700-008	Keypad Cable.
1	660-000	CEECO SPK PC board.
1	705-110	Connectorized Keypad.
1	6020	Momentary Panel Switch.
1	14123	Speaker.
1	14067	Microphone.
1	331-005	Weatherproof housing (WPP)
1	500-091	Stainless Steel Panel.
<b><u>OPTIONS</u></b>		
1	301-064	Security Tool.
1	331-HOB	Weather- <u>resistant</u> housing.

## **11.0 FCC NOTICE**

### **11.1 FCC REGISTRATION AND REPAIR INFORMATION**

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

### **11.2 CONNECTION 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.

### **11.3 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) and the telephone's FCC registration number and ringer equivalence number. These numbers are listed in section 9.0.

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

## **12.0 REPAIR AND RETURN INFORMATION**

### **12.1 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 instruction. A description of the trouble observed must be attached to the defective unit. This information must be inside the shipping container.

### **12.2 DIRECT ALL INQUIRES TO:**

**CEECO  
Repair Department  
1580 NW 65th Avenue  
Plantation, FL 33313**

**(954) 587-5430**

### **12.3 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.

### **12.4 RETURN FOR CREDIT**

Material may be returned for credit only with prior approval. Material authorized for return is subject to a 15% restocking charge based on the manufacturer's list price. Return RMA must be requested no later than 60 days after original shipment.

## 13.0 WARRANTY POLICY

### 13.1 GENERAL

CEECO products are guaranteed to be free of defects in material and workmanship for a period of 12 months from the date of original shipment, if properly installed and maintained. This warranty is limited to the value of material only.

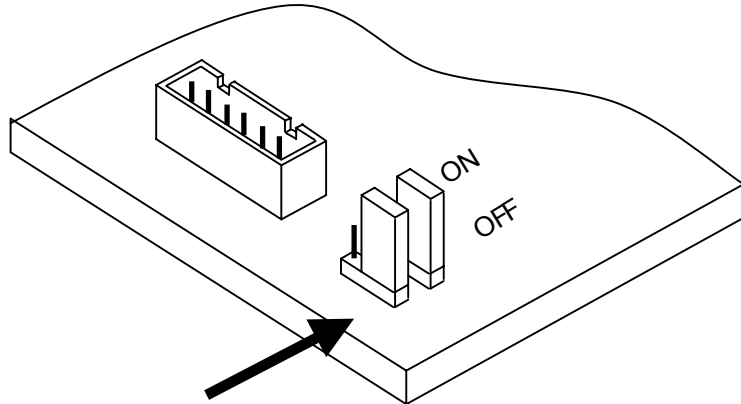
CEECO will repair or replace any unit during this period if found to be defective for reasons other than abuse and improper use or improper installation. It is the buyer's responsibility to return the defective unit to the factory. CEECO will then repair or replace any defective parts and return them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

### 13.2 PRINTED CIRCUIT BOARDS

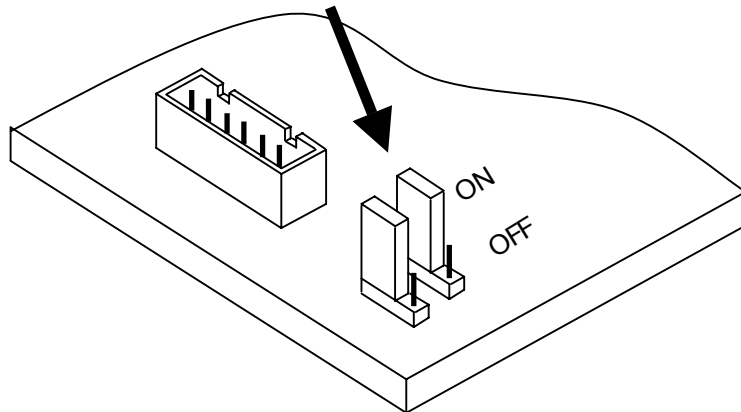
Printed circuit boards should not be repaired in the field. If a unit is found to be faulty, replace it with another unit and return the faulty unit to CEECO for repair. Modifications by any one other than CEECO will void the warranty.

## 14.0 DIAGRAM

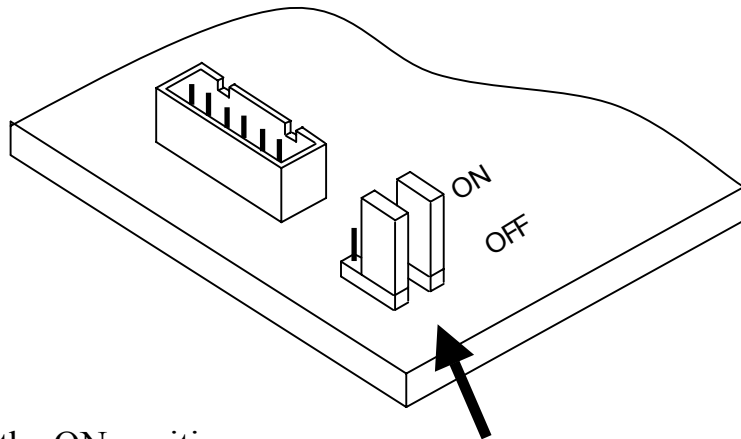
Locate the mini jumpers on the corner of the PCB.



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.