SERVICE MANUAL FOR MODEL WPP-531-FD

HANDS FREE WEATHERPROOF TELEPHONE

AND

MODEL SSP-511-FD

STAINLESS STEEL PANEL TELEPHONE

WITH OPTIONAL ADA FEATURE

EQUIPPED WITH SPK1.07 UNVLr1 FIRMWARE





Serving the Telephone Industry Since 1930

Communication Equipment	1580 NW 65 th Avenue
& Engineering Company	Plantation, FL 33313
	Voice: 954-587-5430
	Fax: 954-587-5440

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-FD OR SSP-511-FD, WITH OPTIONAL ADA FEATURE, EQUIPPED WITH SPK1.07UNVLr1 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 & Engineering Company
1580 NW 65th Avenue

Plantation, FL 33313

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

TABLE OF CONTENTS

<u>SEC</u>	<u>PAGE</u>
1.0	INTRODUCTION4
2.0	GENERAL 4
3.0	PROGRAMMING5
	PROGRAMMING CONTINUED6
	PROGRAMMING CONTINUED7
	PROGRAMMING CONTINUED8
	PROGRAMMING CONTINUED9
	PROGRAMMING CONTINUED
	PROGRAMMING CONTINUED
4.0	OPERATION
5.0	RECOMMENDED TOOLS AND TEST EQUIPMENT11
6.0	INSTALLATION NOTES AND ASSEMBLY INSTRUCTIONS 13
7.0	TESTING15
8.0	SPECIFICATIONS16
9.0	PARTS LIST
10.0	FCC NOTICE
11.0	REPAIR AND RETURN INFORMATION
12.0	WARRANTY POLICY20
12 0	DIACDAM

1.0 INTRODUCTION

The practices in this manual provide installation and maintenance information for the CEECO Model WPP 531-FD or Model SSP-511-FD Telephone 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 NW 65th 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 Panel Speakerphone. Instead of a hookswitch and handset, the telephone has a Press to start/Press to stop button for initiation and termination of phone calls. The Emergency Auto Dial button is also provided for one button dialing of a preprogrammed emergency number of up to 11 digits. Manual volume control is also provided inside the telephone.
- 2.2 The microphone is muted during periods of dial tone to deter the use of hand held dialers.
- **2.3** Incoming calls may be allowed or blocked depending on the programming.
- **2.4** Programming is accomplished via the DTMF keypad.
- 2.5 The telephone is equipped with an ADA feature (changing LED) which when activated, provides a visual call progress indicator.

3.0 PROGRAMMING

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

- **3.1** Connect the phone to a working telephone line or a DTMF test set to begin programming.
- 3.2 Move the mini-jumpers (located on the CEECO 660-000) Printed Circuit Board) to the "ON" position, as depicted on the last page of this manual.
- **3.3 Press** the **CALL button** and wait for dial tone before programming any digits.
- Each location is accessed by dialing the "#" sign and a two digit code. The valid program locations are: #00, #01, #02, #18, #30-#69 (speed dial locations), and #70-#89 (allowed call locations). The previous contents of the location are automatically erased when the location code is accessed.

NOTE: Once the "#" (pound) key has been entered you may get an operator recording or a fast busy, please disregard and continue programming. It is important to be slow and deliberate when pressing the keys during programming. A missed or partial tone could result in improper programming.

- 3.5 Utilizing the keypad, enter #97#18#. This will clear all user programmable memory to begin programming.
- 3.6 Enter #00. Location "00" is the telephone options location. It is comprised of ten digits, all of which must be filled to render the phone functional. By entering 0 through 9 into each of the 10 digits, the phone is customized to a particular installation. The 10 Digits and corresponding options are located on the following page. Review your options and then make the appropriate entries on the keypad, one right after the other. Be sure to record your entries in the Location #00 Option Table for future reference.

LOCATION #00: (OPTION TABLE)

$$^{\#00}_{\text{Digit: 1}}$$
 $^{-2}$ $^{-3}$ $^{-4}$ 0 0 0 1 $^{-7}$ $^{-8}$ $^{-9}$ 10

Digit 1:

- 0 Call restrictions are in effect. (Default)
- 1 No call restrictions.

Digit 2:

- 0 No incoming calls allowed. (Default)
- 1 Incoming calls allowed.

Digit 3:

- 0 No Conversation Time-Out. (Default) For *Emergency* Button
- 1-9 Minutes Conversation Time-Out

Digit 4:

- 0 No Conversation Time-Out. (Default) For *Call* Button
- 1-9 Minutes Conversation Time-Out

Digit 5:

0 Always 0 for this model. (Default)

Digit 6:

- 0 Deactivate ADA feature (changing LED).
- 9 Activate ADA feature (changing LED).

Digit 7:

1 Always 1 for this model

Digit 8:

- 0 Do not dial PBX access number #18 (Default)
- 1 Dial PBX access number stored in Location #18 For *Call* Button

Digit 9:

- 0 Do not dial PBX access number #02. (Default)
- 1 Dial PBX number stored in location #02. For *Emergency* Button

Digit 10:

- 0 No Wink Detect
- 1-9 Length of the Wink (1 = 50ms incremental to 450ms entering a 5 is recommended)

EXAMPLE:

DIAL #00 0152090015

Phone will be set as follows:

DIGIT 1 .. CALL RESTRICTIONS IN EFFECT

DIGIT 2 .. INCOMING CALLS ALLOWED

DIGIT 3 .. 5 MINUTE TIME OUT FOR EMERGENCY CALLS

DIGIT 4 .. 2 MINUTE TIME OUT FOR BLACK CALL BUTTON

DIGIT 5 .. ALWAYS 0

DIGIT 6 .. ACTIVATE ADA LED

DIGIT 7 .. ALWAYS 0

DIGIT 8 .. DO NOT DIAL PBX NUMBER STORED IN LOCATION

#18

DIGIT 9 .. DIAL THE PBX ACCESS NUMBER FIRST FROM LOCATION #02 (SHORT PAUSE THEN DIAL EMERGENCY NUMBER).

DIGIT 10.250MS WINK

LOCATION #01:	(EMERGENCY NUMBER – RED BUTTON)
#01	

This location holds the **Emergency number** to be dialed. **Enter #01 followed by the desired emergency number**. The number can be in the range of 1 to 11 digits. Whenever a caller pushes the "EMER" (RED) button the number in location #01 will be dialed. If caller wants to hang up then he or she <u>must</u> push the "CALL" button. The automatic time out disconnect features will begin to work after the number has been dialed. The call will also disconnect when the called end hangs up, provided the PBX gives the proper wink back on the line. Be sure to record your number above for future reference.

LOCATION #02:	(PBX - EMERGENCY NUMBER RED BUTTON)	
#02		

This location holds any **PBX** number to be dialed **for "Emergency"** Calls. <u>If</u> this is desired, **enter #02, followed by the desired PBX number**. The number can be from 1 to 11 digits. Any number stored in location #02 will automatically

dial first, followed by a pause, and then the phone will automatically dial the number stored in location #01. Be sure to record you number above for future reference.

PROGRAMMING CONTINUED...

LUCATION #10.	(I DA - DLACK CALL DUTTON)
#18	

I OCATION #10. (DDV DI ACK CALL DUTTON)

This location holds any **PBX number** to be dialed **for normal Calls**. <u>If this is desired</u>, **enter #18, followed by the desired PBX number**. The number can be from 1 to 11 digits. Any number stored in location #18 will automatically dial when the black call button is pressed. The keypad is then available for use. Be sure to record your number above for future reference. If the #18 Location is not utilized, the phone will simply deliver dial tone and an enabled keypad, when the Black Call button is pushed.

LOCATION #30 - #69: (SPEED DIAL LOCATIONS)

If Speed Dialing is desired, enter any of the Speed Dial Locations (#30-#69), followed by the desired speed-dial number for that location. There are 40 locations to choose from and use. The numbers to be speed-dialed can range from 1 to 11 digits.

EXAMPLE:

Enter #3018005551212 in the programming sequence. When in normal operating mode, the user dials #30 and the phone will Speed Dial 1 800 555 1212. This is true for all of the Speed Dial Locations from #30 to #69.

• Be sure to record your entries in the Speed Dial Table on the next page for future reference.

SPEED DIAL TABLE

LOCATION DESCRIPTION	LOCATION DESCRIPTION
#30	#50
#31	#51
#32	#52
#33	#53
#34	#54
#35	#55
#36	#56
#37	#57
#38	#58
#39	#59
#40	#60
#41	#61
#42	#62
#43	#63
#44	#64
#45	#65
#46	#66
#47	#67
#48	#68
#49	#69

LOCATION #70 - #89: (CALL RESTRICTIONS/ALLOWED CALLS)

If the phone is intended to **restrict certain calling patterns**, then it must be programmed to tell it specifically which calls to allow. Enter the allowed numbers in any of these 20 locations. The numbers can range from 1 to 11 digits. **Enter the # key**, followed by a **two-digit location code (#70-#89)**, followed by the **allowed calling pattern**. The * (Asterisk) symbol is defined as a wildcard. A wildcard allows any digit (0-9) to be dialed in its place. Be sure to record your entries in the table below for future reference.

EXAMPLE:

#700 * * * * * * * * * *	Allows all 0 minus and 0 plus calls.
# 71 15551212	Allows 1-555-1212 information calls.
# 72 911	Allows 911 emergency calls.
#731800* * * * * * *	Allows 1-800 calls.

RESTRICTION/ALLOWED CALL TABLE

LOCATION DESCRIPTION	LOCATION DESCRIPTION
#70	#80
#71	#81
#72	#82
#73	#83
#74	#84
#75	#85
#76	#86
#77	#87
#78	#88
#79	#89

3.7 When programming is **finished**, return the **mini-jumpers** to the "**OFF**" position. Then return the phone to an "on hook" state (no dial tone), by **press**ing the black "**CALL**" **button**.

4.0 OPERATION

- 4.1 To make a call, press the black "CALL" button located on the front of the phone. The LED will light red at this time. When dial tone is received, the transmitter is muted and the phone waits for numbers to be dialed. Any programmed PBX number (#18 Location) will automatically dial out. The LED will flash red and green during the ringing cycle. When the call is answered, the LED will turn green (after a maximum of four seconds), and a normal speakerphone conversation may take place.
- 4.2 To make an Emergency call, press the red "EMER" button located on the front of the phone. The LED will light red at this time. The preprogrammed number will dial out on the line. Any programmed PBX number (#02 Location) will automatically dial out first. The LED will flash red and green during the ringing cycle. When the call is answered, the LED will turn green (after a maximum of four seconds), and a normal speakerphone conversation may take place.
- 4.3 After the call is complete, press the "CALL" button again to terminate the call. The LED will go out. If user does not press the "CALL" button when he or she is finished using the phone, the phone will hang-up after detecting a WINK (momentary open) or when the timer times-out, if it was so programmed.
- 4.4 If digit 1 of Location #00 is "0", then call restrictions are in effect. The numbers that may be dialed are restricted to the numbers entered into Location #70-#89. If the number dialed is not in the Location #70-#89, then the phone gives three tones and drops the line.

If digit 1 of Location #00 is "1" then there are no restrictions and any number may be dialed.

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, CEECO Part Number 301-064

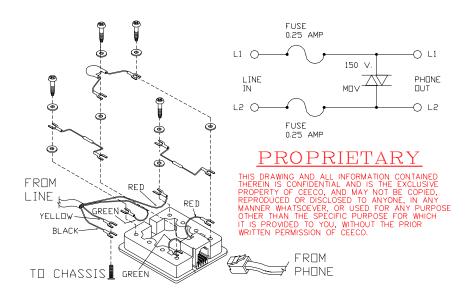
6.0 INSTALLATION NOTES AND ASSEMBLY INSTRUCTIONS

- **6.1** Using a 301-064 security tool (**sold separately**) to remove the four locking 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 its housing or mounting.
- Run the inside station wire through the housing or mounting and terminate on to the RJ11C modular jack inside, as depicted in the diagram on the following page. The CEECO-provided jack <u>must</u> be used, as it contains required over-voltage protection.
- 6.5 The use of a gas tube or carbon station protector is recommended. The station ground should not exceed 50 ohms.
- **6.6** Plug the modular line cord from the PC board into the RJ11C terminal block.
- **6.7** Dress the line cord away from the locking screws and seat the telephone assembly into the housing or mounting.
- **6.8** Secure the telephone assembly by inserting and tightening the 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 uninsultated telephone wires or terminals unless the telephone line has been disconnected at the network interface.
- D. Use caution when installing or modifying telephone lines.

6.9 OVER-VOLTAGE PROTECTION DIAGRAM



7.0 TESTING

Assuming that the phone was programmed to automatically dial an emergency number, and also allow use of the keypad for normal calls, without automatically dialing a number when the black "CALL" button is pressed, the following should apply:

Action: With the phone connected to a working phone line,

Press the black "CALL" button.

Reaction: The LED lights red and dial tone is received. Any number

programmed in the #18 Location will automatically dial out. Otherwise the phone will allow normal calls to be made with the keypad. Remember that if call restrictions are set, the phone will only allow those calls to be made that have been programmed into

the #70-#89 Locations.

Action: Dial a number. The LED will flash red and green during the

ringing cycle.

Reaction: The called party answers. The LED turns green (after a maximum

of four seconds). A normal speakerphone conversation is allowed.

Action: Finish the conversation.

Press the "CALL" button, or wait until time-out occurs

(if programmed as such).

The LED goes out.

Reaction: The call is terminated.

Action: Press the "EMER" button. The LED lights red.

Reaction: The preprogrammed number is automatically dialed (SEE

SECTION 2, LOCATION #01) and will not disconnect unless the black "CALL" button is pushed, the called party hangs up and a wink back is received, or a programmed time out disconnect occurs, at which time the LED goes out. During the ringing cycle, the LED flashes red and green. When the call is answered, the LED turns green (after a maximum of four seconds) and a normal

speakerphone conversation is allowed.

NOTE: If you experienced any trouble during the testing phase, please

refer back to the appropriate section(s) of the manual. Remember that the mini-jumpers must be moved to "ON" for programming and to "OFF" for operation. If trouble persists, refer to section

11.2 please.

8.0 SPECIFICATIONS

INPUT POWER: C.O. LINE POWERED (48v-52v Loop)

LOOP CURRENT: 30ma. MIN. 80ma. MAX.

IMPEDANCE: 600 Ohms

SIGNALING: DTMF, 70ms tone, 50ms spacing

OUTPUT: -4.0 to -6.0dbm

ENVIRONMENTAL: Temperature 0°C to 50°C

Humidity 20%-90% non-condensating

PROGRAMMING: Via DTMF keypad.

MEMORY RETENTION: Non-volatile storage (does not require power)

DIMENSIONS: 7 1/6" Wide x 11 1/4" High x 4 1/4" Deep

(SSP) (Handset on hook)

MOUNTING: Vertical Surface Mount.

WEIGHT: Approximately 4 Pounds.

WEATHERPROOF

HOUSING: Cast Aluminum

DIMENSIONS: 9 ½" Wide x 12 5/8" High x 8" deep.

(WPP) (including door).

MOUNTING: 4 holes spaced 8" x 5 7/8" x 13/32"

(or optional pole mounting bracket)

WEIGHT: Approximately 12 pounds.

FCC REGISTRATION: BW88T7-13716-TE-T

RINGER EQUIVALENCY: 0.4A

TYPE JACK: RJ11C

UL LISTED NO.: 6OF5

9.0 PARTS LIST

QUANTITY	PART NUMBER	DESCRIPTION
4	331-006	Outer Cover Locking- Screw
1	301-018	Modular Line Cord
1	301-054	Modular Connector (RJ11C)
1	531-200	Service Manual
1	700-008	Keypad Cable
1	660-000	CEECO SPK Board
1	705-110	Connectorized Keypad
2	6020	Momentary Panel Switch
1	14123	Speaker
1	331-005	Weatherproof Housing
1	12017	Ringer

ACCESSORIES:

1 301-064 Security Tool

10.0 FCC NOTICE

10.1 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.

10.2 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.

10.3 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 11.00.

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

11.0 REPAIR AND RETURN INFORMATION

11.1 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.

11.2 DIRECT ALL INQUIRES TO:

CEECO

Repair Department 1580 NW 65th Avenue Plantation, FL 33313

(954) 587-5430

11.3 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.

11.4 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 30 days after original shipment.

12.0 WARRANTY POLICY

12.1 GENERAL

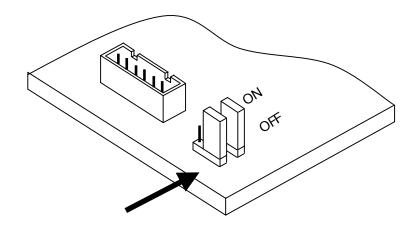
CEECO products are guaranteed to be free of defects in material and workmanship for a period of 365 days from the date of original purchase. CEECO's obligation under this warranty is limited to repair or replacement of any part found to be defective by CEECO. Under no circumstances shall CEECO be liable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

12.2 PRINTED CIRCUIT BOARDS

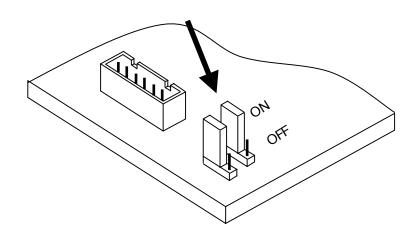
Printed circuit boards should not be repaired in the field. If a unit is found to be faulty, replace it with another unit and return the faulty unit to CEECO for repair. Modifications by any one other than CEECO will void the warranty.

13.0 DIAGRAM

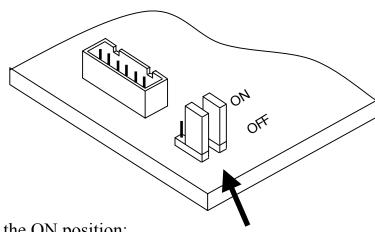
Locate the mini jumpers on the corner of the PCB.



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.

CEECO

Communication Equipment & Engineering Company **PROPRIETARY**

