

SERVICE MANUAL

FOR

**MODEL WPP-531-D2
WEATHERPROOF TELEPHONE**

OR

**MODEL HOB-531-D2
WEATHER RESISTANT TELEPHONE**

OR

**MODEL SSP-511-D2
STAINLESS STEEL PANEL TELEPHONE**

**WITH OPTIONAL SECOND-NUMBER AUTO DIAL
FEATURE AND OPTIONAL ADA FEATURE**

EQUIPPED WITH SPK1.07UNVL FIRMWARE



Serving the Telephone Industry Since 1930

*Communication Equipment
& Engineering Company*

1580 NW 65th Avenue

Plantation, FL 33313

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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-D2, HOB-531-D2, OR SSP-511-D2 WITH SPK1.07UNVL 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

519 SW Park Street
Okeechobee, FL 34972
863-357-0798 Voice
863-357-0006 Fax

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1.0 INTRODUCTION

The practices in this manual provide installation and maintenance information for Model WPP-531-D2 or Model SSP-511-D2 Telephone, with optional second-number auto-dial feature and optional ADA feature, equipped with SPK1.07UNVL 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 SW Park Street
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2.0 GENERAL

- 2.1 The CEECO hands free telephone is a sturdy, vandal resistant, stainless steel speakerphone. Instead of a hookswitch and handset, the telephone has a press to start/press to stop CALL 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 telephone provides an optional second-number auto-dial feature. This allows a second number to be automatically dialed, when no answer is received on the first auto-dial number. The phone can be programmed to select the number of unanswered rings (1-9), after which it will automatically release the second auto-dial number.
- 2.3 The telephone also has an optional ADA feature. This feature causes the LED to illuminate RED during off-hook and dialing conditions and turn GREEN after answer.
- 2.4 The microphone is muted during periods of dial tone to deter the use of hand-held dialers to make fraudulent calls.
- 2.5 Incoming calls may be allowed or blocked and an automatic call disconnect may be selected (1-9 minutes) depending on the programming.
- 2.6 Programming is accomplished by way of a DTMF keypad, which is attached to the back of the telephone panel or provided separately.

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 If the phone does not have a DTMF keypad mounted on the back of the telephone panel, but rather one has been provided separately, connect the keypad at this time. In order to connect a separate keypad, locate the multicolor ribbon cable extending from the printed circuit board with a white connector on the loose end. Connect that white connector to the white connector on the keypad. The connectors will only mate one way.
- 3.4 **Press the “CALL” button** and wait for dial tone before entering programming digits.
- 3.5 Utilizing the keypad, **enter # 9 7 # 1 8 # # 1 9 # # 0 1 #**, 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.

- 3.6 If a PBX access code or number must be dialed, **enter # 1 8 followed by the required code or number**. When the phone is in operation and the CALL button is pressed, this PBX code or number will automatically dial first. Please **note** that **Digit 8 in section 3.9** must also be **set to “1”** for this feature to be activated. The number may be up to eleven (11) digits in length. If this feature is not desired, continue to section 3.7.

Example: Enter # 1 8 9. This will program the phone to automatically Dial a “9” when the CALL button is pressed.

- 3.7 In order to program the **auto-dial number**, **enter # 1 9 followed by the desired auto dial number**. The number may be up to eleven (11) digits in length.

Example: Enter # 1 9 5 5 5 1 2 1 2. This will program the phone to automatically dial the number 555-1212, when the CALL button is pressed.

PROGRAMMING CONTINUED...

- 3.8** If a second auto-dial number is desired, enter # 0 1 followed by the desired second auto-dial number. This number will automatically dial out after the selected number of unanswered rings from the first auto-dial number. The number of rings is selected under Digit 6 in programming section 3.9. The second auto-dial number may be up to eleven (11) digits in length. If this is not a desired feature, proceed to section 3.9.

Example: Enter # **0 1 7 7 7 1 3 1 3**. During programming in the next section (3.9), enter a “2” for Digit 6 in programming section 3.9. This will program the phone to automatically dial the number 777-1313 after the first auto-dial number receives two (2) unanswered rings.

- 3.9** **Enter # 0 0 followed by a series of ten digits as selected** from the options on the next page. An entry must be made for each of the ten digits, in order for the phone to operate properly. By entering a number of 0-9 for each of the ten digits, the phone is customized for the particular installation.

EXAMPLE: Enter # **0 0 0 1 6 0 0 2 0 0 0 5**. This will program the phone as follows:

Digit 1- Always 0.

Digit 2- Incoming calls allowed.

Digit 3- 6 minute conversation automatic call disconnect.

Digit 4- Always 0.

Digit 5- Always 0.

Digit 6- ADA activated. If a second auto-dial number is programmed, it will dial out upon two (2) unanswered rings of the first auto-dial number.

Digit 7- Always 0.

Digit 8- Do not dial PBX access number.

Digit 9- Always 0.

Digit 10- 250 ms wink detect.

PROGRAMMING CONTINUED...

After entering # 0 0, enter a series of ten Digits as selected below:

Digit 1

0 Always 0 for this model.

Digit 2

0 No incoming calls allowed.

1 Incoming calls allowed.

Digit 3-(Automatic call disconnect: 1 thru 9 min. available)

0 No automatic call disconnect.

1-9 Minute(s) conversation automatic call disconnect.

Digit 4

0 Always 0 for this model.

Digit 5

0 Always 0 for this model.

Digit 6-(2nd Number Auto-Dial Setting)

0 Deactivate ADA feature.

1-9 Activate ADA feature. Number of unanswered rings before releasing second auto-dial number.

Digit 7

0 Always 0 for this model.

Digit 8

0 Do not dial PBX access code or number (section 3.6).

1 Dial PBX access code or number.

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).

3.10 Once programming has been completed, press the “CALL” button to hang-up the phone and return the two mini-jumpers to the “OFF” position. The telephone is now ready for testing/operation.

4.0 TESTING/OPERATION

- 4.1 With the phone connected to a working telephone line, press the “CALL” button located on the front of the telephone. The LED will illuminate red at this time.
- 4.2 If any PBX access code or number was programmed (section 3.6), it will automatically dial out, before the programmed auto-dial number. There will be an approximate one (1) second pause between the two numbers.
- 4.3 If no PBX access code or number was programmed, the auto-dial number will simply dial out (section 3.7). When the called party answers, the LED will turn GREEN after a maximum of four seconds, if the ADA feature was activated during programming. A normal speakerphone conversation should be allowed.
- 4.4 If a second auto-dial number was programmed (section 3.8) and the first auto-dial number receives the selected number of unanswered rings (section 3.9), the phone will automatically reset and dial the second auto-dial number. If that second number receives the same number of unanswered rings, the phone will automatically reset and dial the first auto-dial number again. This oscillation will occur as long as the phone continues to receive the selected number of unanswered rings. When the called party answers, the LED will turn GREEN after a maximum of four seconds and a normal speakerphone conversation should be allowed.
- 4.5 When the call is complete, press the “CALL” button again to hang up the phone. The call will be terminated and the LED will go out. If an automatic call disconnect was programmed (section 3.9 Digit 2), allow the conversation to continue past the set time (1-9 minutes). Once the time limit expires, the phone will automatically disconnect the call. A three-tone error signal will be heard as the call is disconnected. The time is not exact.
- 4.6 If the phone was programmed to allow incoming calls (section 3.9 Digit 1) place a call into the phone. When the phone rings, press the “CALL” button. The microphone should activate approximately three seconds after the call is answered and a normal speakerphone conversation should follow. If the phone was programmed not to allow incoming calls, the microphone will not turn on.
- 4.7 Testing is now complete. If trouble was encountered please refer to section 10.2 of this manual, otherwise the phone is operational.

5.0 RECOMMENDED TOOLS AND TEST EQUIPMENT

DTMF Test Set	5/16" Nut Driver
Volt/Ohm Meter	Flat Blade Screw Driver
3/8" Nut Driver	Security Tool-CEECO P/N 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 The security tool is for a standard 5/32" button screw generally used on the framework of the phone booths.
- 6.3 Separate the cover assembly from the Weatherproof housing or enclosure.
- 6.4 Run the inside station wire through the housing or enclosure and terminate the wire on the RJ11C terminal block.
- 6.5 The use of a gas tube or carbon station protectors is recommended. The station ground should not exceed 50 ohms.
- 6.6 Plug the modular line cord from the telephone into the RJ11C terminal block.
- 6.7 Dress the line cord away from the security screws and seat the phone into the housing or enclosure.
- 6.8 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 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.
RINGER EQUIVALENCE:	0.4a
TYPE JACK:	RJ11C
OUTPUT:	-4.0 to -6.0 dbm.
ENVIRONMENTAL:	Temperature 0°C to 50°. Humidity 20% to 90%.
PROGRAMMING:	Via DTMF keypad.
TELEPHONE PANEL:	Brushed 14 gauge Stainless Steel
ENCLOSURE	WPP Model Cast Aluminum HOB Model Painted Steel
DIMENSIONS:	WPP Model – 12 5/8” High x 9 1/2” Wide x 8” Deep (including door) HOB Model – 11 1/4” High x 7 1/16” Wide x 5” Deep SSP Model - 11 1/4" High x 7 1/6" Wide x 4 1/4" Deep (Handset on hook)
MOUNTING:	WPP Model - 4 Holes spaced 8” x 5 7/8” HOB Model - 4 Holes spaced 8” x 5 7/8” SSP Model - 4 Holes spaced 10 3/4” x 6.5”
WEIGHT:	WPP Model - 17 lbs. HOB Model - 10 lbs. SSP Model - 5 lbs.
MEMORY RETENTION:	Non-volatile memory retention
FCC REGISTRATION:	BW8USA-73021-MT-E
UL LISTED NO.:	60F5

8.0 PARTS LIST

<u>QUANTITY</u>	<u>PART NUMBER</u>	<u>DESCRIPTION</u>
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	14024	Speaker.
1	14067	Microphone.
1	331-005	Weatherproof housing (WPP)
1	331-010	Stainless Steel Panel.
1	12017	Ringer
<u>OPTIONS</u>		
1	301-064	Security Tool.

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 its rules. The FCC requires that you be advised of certain requirements involving the use of this telephone.

9.2 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.

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) and 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 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 SW Park Street
Okeechobee, FL 34972
863-357-0798 Voice
863-357-0006 Fax
info@ceeco.net
www.ceeco.net

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 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 RMA must be requested no later than 30 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 12 months from the date of original shipment, if properly installed and maintained. This warranty is limited to the value of material only.

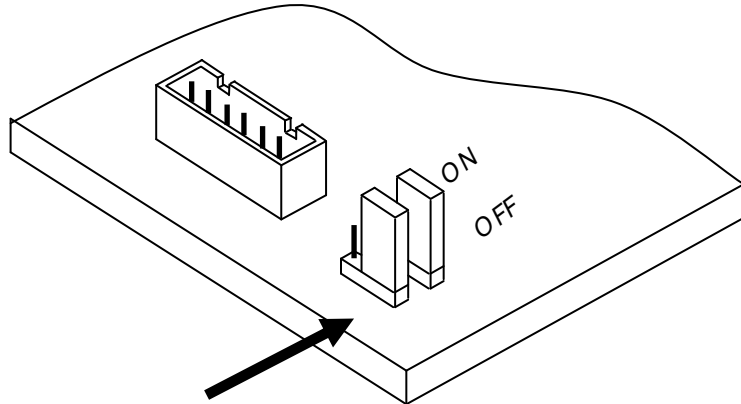
CEECO will repair or replace any unit during this period if found to be defective for reasons other than abuse and improper use or improper installation. It is the buyer's responsibility to return the defective unit to the factory. CEECO will then repair or replace any defective parts and return them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

11.2 PRINTED CIRCUIT BOARDS

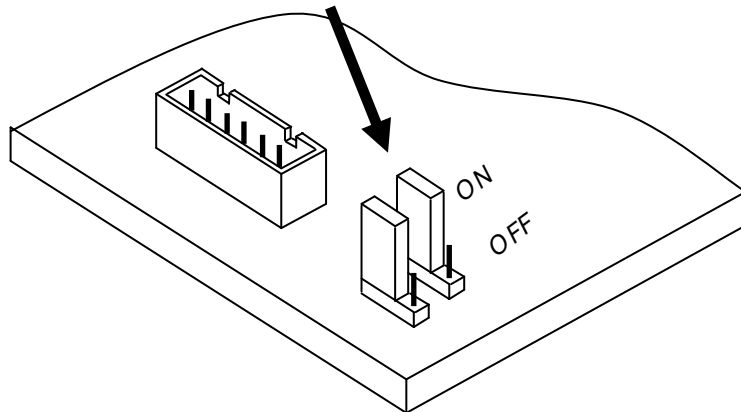
Printed circuit boards should not be repaired in the field. If a unit is found to be faulty, replace it with another unit and return the faulty unit to CEECO for repair. Modifications by any one other than CEECO will void the warranty.

12.0 DIAGRAM

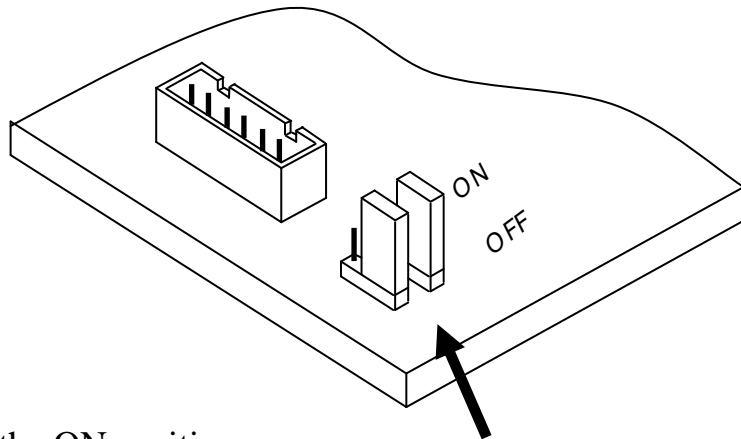
Locate the mini jumpers on the corner of the PCB.



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.