SERVICE MANUAL

FOR

MODEL SSP-571-D-ADA-SS

(FORMERLY MODEL SSP-579-D)

HANDS FREE PANEL TELEPHONE

EQUIPPED WITH SPK1.07 UNVLADA FIRMWARE

WITH:

OPTIONAL ADA FEATURE

AUTO-ANSWER FEATURE

REMOTE PROGRAMMING FEATURE

CEECO

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

IMPORTANT INFORMATION FOR CUSTOMER

Please fill in before you continue.

The following information is necessary when calling CEECO for assistance.

MODEL NUMBER	MODEL SSP-571-D-ADA-SS, EQUIPPED WITH SPK1.07UNVLADA FIRMWARE
SERIAL NUMBER	
DATE MANUFACTURED	
LOCATION INSTALLED	

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

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TABLE OF CONTENTS

SECTION **PAGE**

1.0 INTRODUCTION..... 4

2.0 GENERAL..... 5

3.0 PROGRAMMING..... 6

PROGRAMMING CONTINUED…..... 7

PROGRAMMING CONTINUED…..... 7

PROGRAMMING CONTINUED…..... 9

PROGRAMMING CONTINUED…..... 10

4.0 TESTING/OPERATION..... 10

TESTING/OPERATION CONTINUED…..... 11

5.0 RECOMMENDED TOOLS AND TEST EQUIPMENT..... 11

6.0 INSTALLATION NOTES AND ASSEMBLY INSTRUCTIONS..... 12

7.0 SPECIFICATIONS..... 13

8.0 PARTS LIST..... 14

9.0 FCC NOTICE..... 15

10.0 REPAIR AND RETURN INFORMATION..... 16

11.0 WARRANTY POLICY..... 17

12.0 AUTO-ANSWER DIAGRAM..... 18

13.0 PROGRAMMING JUMPER DIAGRAM..... 19

1.0 INTRODUCTION

The practices in this manual provide installation and maintenance information for the CEECO Model SSP-571-D-ADA-SS Telephone, equipped with SPK-1.07UNVLADA 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 SSP-571-D-ADA-SS 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.

2.2 The telephone may be programmed to automatically dial (auto-dial) a telephone number of up to eleven (11) digits in length. The telephone may also be programmed to automatically dial a PBX or other access number of up to eleven (11) digits in length.

2.3 The telephone provides an optional ADA feature, which utilizes an LED for visual recognition of the call progress. The LED changes from RED to GREEN during the progress of the call.

2.4 The telephone provides an optional auto-answer feature, which allows remote monitoring (listening) of the area in which the telephone is installed

2.5 The telephone also provides an optional Remote Programming feature, which allows the phone to be programmed or re-programmed from another telephone or similar DTMF device.

2.6 The microphone is muted during periods of dial tone to help guard against the use of hand held dialers.

2.7 Incoming calls may be allowed or blocked depending on the programming.

2.8 The telephone may be programmed to automatically disconnect a call after a selected time period of 1-9 minutes (auto-answer feature excluded).

2.9 Programming is accomplished via a separately supplied DTMF keypad.

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 before programming.

3.2 Locate the multicolor ribbon cable, extending from the Printed Circuit Board, with a white connector hanging loosely. Locate the programming keypad (provided separately), which has the mating end of the white connector attached to it. **Connect the keypad** to the ribbon cable, by way of the two connectors.

3.3 Move the **mini-jumpers** (located on the Printed Circuit Board) to the **"ON"** position, as depicted on the last page of this manual.

3.4 **Press the CALL button** and wait for dial tone before programming any digits.

3.5 It is important to be slow and deliberate when pressing the keys of the programming keypad. A missed or partial tone could result in improper programming.

NOTE: Once the "#" (pound) key has been entered you may get an operator recording or a fast busy, please disregard and continue programming.

3.6 **Enter: # 9 7 # 1 8 #** This will **clear all** field programmable memory.

3.7 **Enter # 0 0 followed by** a series of **ten (10) Digits** as selected from the options on the following page. By entering 0 thru 9 into each of the 10 digits, the phone is customized for the particular installation. A selection for all ten Digits must be entered in order for the phone to operate properly.

PROGRAMMING CONTINUED…

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 Minutes Conversation Time-Out. (the call will automatically be terminated after the selected number of minutes).

Digit 4:
0 **Always 0 for this model.**

Digit 5:
0 **Always 0 for this model**.

Digit 6:
0 No ADA Feature.
9 Activate ADA Feature (Red/Green LED visual call progress operation)

Digit 7:
0 **Always 0 for this model**

Digit 8: (PBX Access – see section 3.9)
0 Do not dial PBX access number stored in Location #l8.
1 Dial PBX access 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 (l = 50ms incremental to 450ms – entering a **5** is **recommended**).

- Be sure to record your selections below for future reference:

#00	**0**	__	__	**0**	**0**	__	**0**	__	**0**	__
	1	2	3	4	5	6	7	8	9	10

PROGRAMMING CONTINUED…

EXAMPLE:

Enter #00 0160000005

Phone will be set as follows:

DIGIT 1 .. ALWAYS 0
DIGIT 2 .. INCOMING CALLS ALLOWED
DIGIT 3 .. 6 MINUTE TIME OUT FOR CALLS
DIGIT 4 .. ALWAYS 0
DIGIT 5 .. ALWAYS 0
DIGIT 6 .. ADA DEACTIVATED
DIGIT 7 .. ALWAYS 0
DIGIT 8 .. DO NOT DIAL PBX NUMBER STORED IN LOCATION#18
DIGIT 9 .. ALWAYS 0
DIGIT 10 . 250ms WINK

3.8 **Enter # 1 9 followed by the desired auto-dial number**. When the phone is in operation and the CALL button is pressed, this auto-dial number will automatically dial out. This number may be up to eleven (11) digits in length.

#19 ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___

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

3.9 If it is necessary for the telephone to automatically dial a **PBX or other access number**, **enter # 1 8 followed by the desired PBX access code or number.** When the phone is in operation and the CALL button is pressed, this number will automatically dial out, followed by the auto-dial number. There will be approximately a one (1) second pause between the dialing of the two numbers. This number may be up to eleven (11) digits in length. If this is not a desired feature, proceed to section 3.10.

Example: Enter **# 1 8** 9. This will program the phone to automatically dial the number 9, pause approximately one (1) second, and automatically dial the auto-dial number, whenever the CALL button is pressed.

#18 ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___

PROGRAMMING CONTINUED…

3.10 AUTO-ANSWER

In order to accomplish remote programming and/or remote monitoring, the telephone must be programmed to automatically answer itself after a selected number of rings. To **program the auto-answer feature** locate the 660-650 Printed Circuit Board, under large main Printed Circuit Board (660-000). At the edge of this printed circuit board, there are ten (10) rows of double pins/contacts with one plastic mini-jumper. Please take a moment to refer to the auto answer diagram on page 18 of this manual. If the jumper is placed across the "0" pins, the telephone will not automatically answer. As depicted in the diagram, the mini-jumper may be placed across any choice of pin pairs 1-9; thus causing the telephone to automatically answer after the selected number of rings (1-9 rings). **Make a ring count selection and place the mini-jumper accordingly.**

RING COUNT	
0	No auto-answer
1	Answer after 1st ring
2	Answer after 2nd ring
3	Answer after 3rd ring
4	Answer after 4th ring
5	Answer after 5th ring
6	Answer after 6th ring
7	Answer after 7th ring
8	Answer after 8th ring
9	Answer after 9th ring

The Remote Monitoring function associated with this auto-answer feature will be explained in section 4.0 Testing/Operation.

3.11 In order to accomplish **remote programming**, a **security code** must be programmed into the telephone. To do this, **enter # 7 0, followed by four digits of choice**, which will become the security code.

EXAMPLE: Enter **# 7 0** 5 5 5 1 and the telephone will be programmed to have a security code of 5551.

The Remote Programming function will also be explained in section 4.0 Testing/Operation.

PROGRAMMING CONTINUED…

3.12 When programming is finished, **hang up the phone** by pressing the CALL button. Return the **mini-jumpers** to the **"OFF"** position. The phone is now **ready for Testing/Operation**.

4.0 TESTING/OPERATION

4.1 Connect the telephone to a working telephone line.

4.2 To make a call, press the CALL button located on the front of the phone. When dial tone is received, the transmitter is muted and the phone waits for numbers to be dialed. The LED will illuminate RED at this time, and the preprogrammed number(s) will dial out on the line. The LED will flash Red and Green during the time the call is ringing.

4.3 When the called party answers the LED will turn GREEN after a maximum of four seconds, if the ADA feature was activated (see section 3.7 Digit 6). Otherwise, the LED will remain RED during off-hook periods. A normal speakerphone conversation should be allowed.

4.4 When the call is complete, press the CALL button again to hang up. The LED will go out and the call will be terminated.

4.5 If the user does not press the CALL button when he or she is done, the phone will hang up after detecting a wink back from the far end, or when the selected time-out period (see section 3.7 Digit 3) expires.

4.6 Place a call to the telephone from another phone. If the phone was programmed to allow incoming calls, answer the phone and the microphone should activate within approximately three (3) seconds. A normal speakerphone conversation should follow. If the phone was programmed not to allow incoming calls, the microphone will not activate.

4.7 REMOTE MONITORING

If the telephone was programmed to auto-answer (section 3.10), then it may be used to remotely monitor the area in which it is installed. Follow these steps:

- Call the CEECO phone from another phone.
- The CEECO phone answers after the number of ring-counts selected on the auto-answer board (see page18).

TESTING/OPERATION CONTINUED…

- The microphone and speaker will activate for remote monitoring and voice transmission. The person calling the telephone will be able to listen to the area surrounding the telephone and his/her voice can be heard over the speaker. Two-way communication could also take place.

4.8 REMOTE PROGRAMMING

The CEECO Model SSP-579-D-SS telephone can be programmed remotely to change all programming features previously discussed. In addition, the security code for remote programming can be changed as well. No changes to the mini-jumpers are required to remotely program the telephone. The following steps show how to remotely program this CEECO telephone:

- Place a **call** from another telephone to **the CEECO telephone**. The CEECO telephone will **automatically answer itself** after the number of rings selected in section 3.10. The CEECO telephone then **sends two tones** as a prompt for the security code.

- From the calling telephone, **dial # #, followed by the security code**. The CEECO telephone will send another **tone** to **acknowledge access** to remote programming. The CEECO telephone is now ready to be remotely programmed. **Follow** the instructions previously discussed under **sections 3.06 through 3.09** (with the exception of pressing the "CALL" button), utilizing the keypad from the calling phone. In order **to change the security code, enter # 7 0, followed by the new four-digit code.** This will become the new security code the next time the telephone is called. No other steps need to be followed. **When finished, enter # 9 9**. The CEECO telephone will hang-up to end the remote programming session.

  NOTE: As an added security measure, any failed or repeated attempts at remote programming of the CEECO telephone must be followed by a full two minute pause or rest, before additional attempts are made.

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 head screw generally used on the framework of the phone booths.

6.3 Separate the cover assembly from the housing.

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

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 SPK 660-000 PC board into the RJ11C terminal block.

6.7 Dress the line cord away from the security screws and seat the faceplate into the enclosure.

6.8 Secure the cover assembly by 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 touches 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:	40ma. MIN. 80ma. MAX.
IMPEDANCE:	600 Ohms
SIGNALING:	DTMF, 70ms tone, 50ms spacing
OUTPUT:	-4.0 to -6.0dbm
ENVIRONMENTAL:	Temperature 0oC to 50oC Humidity 20%-90% non condensating.
PROGRAMMING:	Via DTMF keypad.
DIMENSIONS:	6.8" W X 9.76" H X 2.75" D
MEMORY RETENTION:	Non-volatile memory retention
WEIGHT:	Approximately 9 Pounds
TYPE JACK:	RJ11c
UL LISTED NO.:	6OF5

8.0 PARTS LIST

QUANTITY	PART NUMBER	DESCRIPTION
4	406-019	OUTER COVER SECURITY SCREW
1	301-018	MODULAR LINE CORD
1	379-100	FACE PLATE
1	301-054	MODULAR CONNECTOR (RJ11C)
1	579-200	SERVICE MANUAL
1	700-008	KEYPAD CABLE
1	660-000	CEECO SPEAKER PCB
1	660-650	CEECO AUTO-ANSWER PCB
1	705-110	CONNECTORIZED KEYPAD
1	6018-B	MOMENTARY PANEL SWITCH
1	14024	SPEAKER
1	12017	RINGER

ACCESSORIES

1	301-064	SECURITY TOOL
1	371-024	BRAILLE EMERGENCY PLATE

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 "Returned 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 INQUIRIES TO:

CEECO
REPAIR DEPARTMENT
519 W South Park Street
Okeechobee, FL 34972
863-357-0798- telephone
863-357-0006- facsimile
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.

10.5 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.

11.0 WARRANTY POLICY

11.1 GENERAL

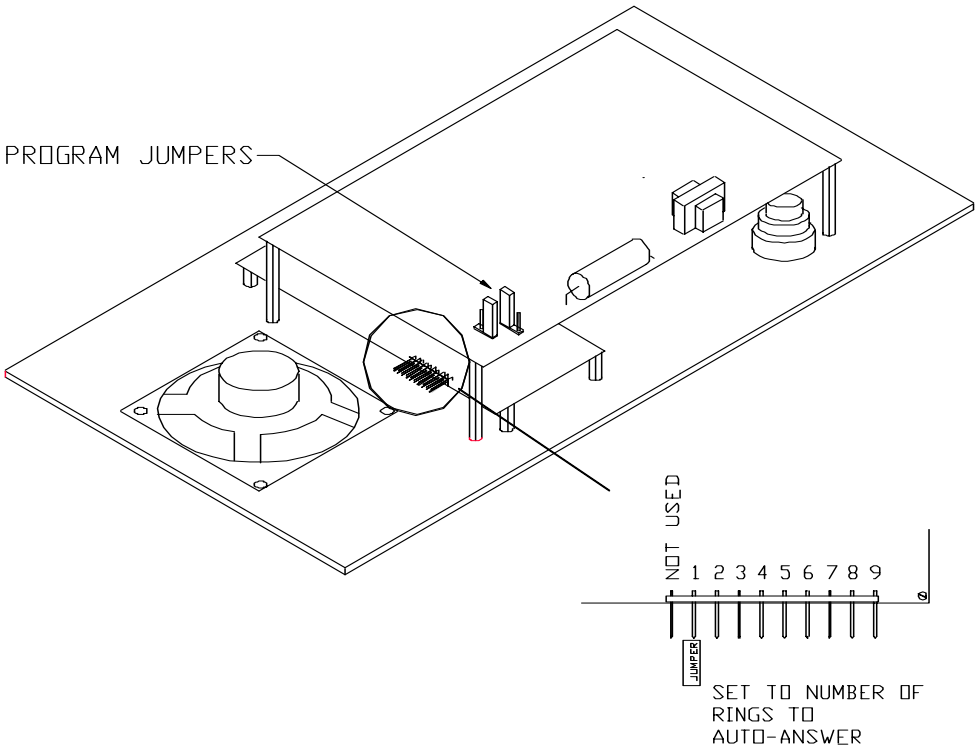
CEECO products are guaranteed to be free of defects in material and workmanship for a period of 365 days from the date of original purchase. CEECO's obligation under this warranty is limited to repair or replacement of any part found to be defective by CEECO. Under no circumstances shall CEECO be liable for loss, damage, cost of repair, or consequential damages of any kind, which have been caused by neglect, abuse or improper operation of equipment. This warranty will not apply to any event of acts of God.

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 other than CEECO will void the warranty.

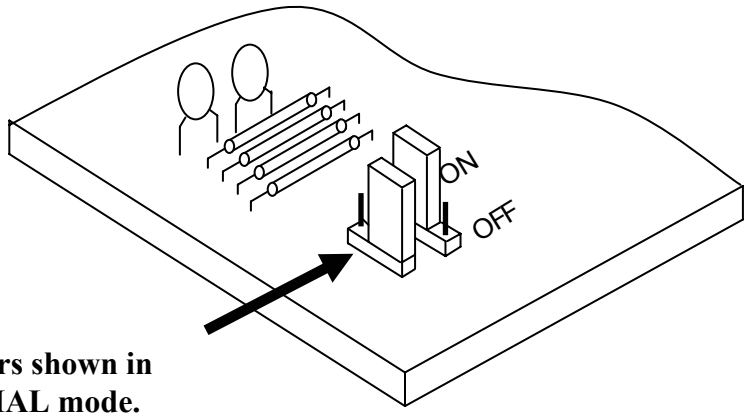
12.0 AUTO-ANSWER DIAGRAM

Location of ring-select jumpers, on lower auto-answer board:



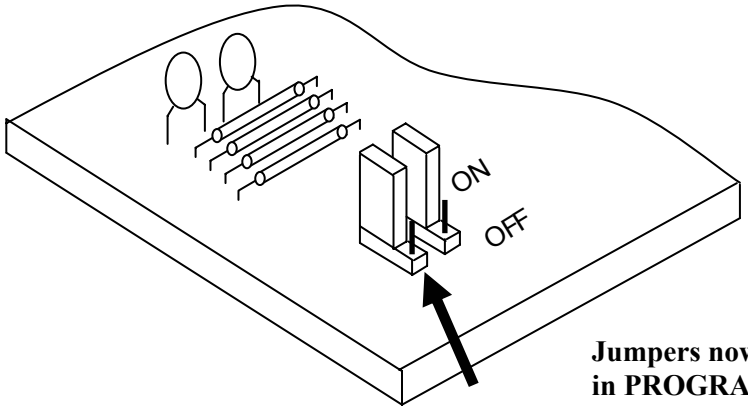
13.0 PROGRAMMING JUMPER DIAGRAM

Locate the mini jumpers on the corner of the PCB.



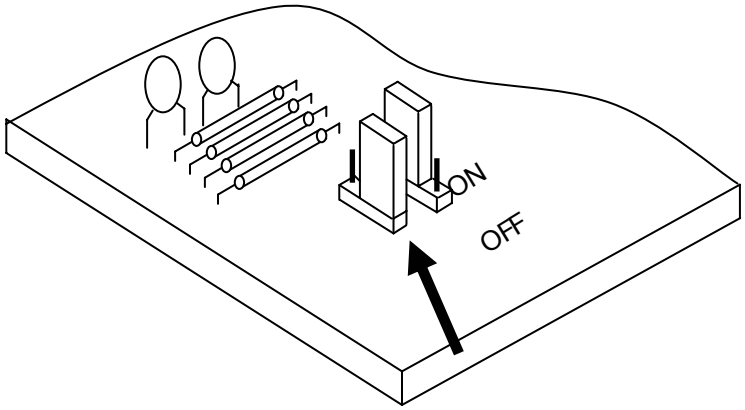
Jumpers shown in NORMAL mode.

To program the phone locally, move ONE mini jumper to the ON position BEFORE going off-hook



Jumpers now shown in PROGRAMMING mode

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



NOTE:
Do not leave both mini jumpers in the ON position.