SERVICE MANUAL

FOR

MODEL SSP-571-D2

HANDS FREE PANEL TELEPHONE

EQUIPPED WITH SPK1.07UNVL FIRMWARE

WITH OPTIONAL SECOND-NUMBER AUTO-DIAL FEATURE

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 SSP-571-D2, EQUIPPED 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 W South Park Street
Okeechobee, FL 34972
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<u>**SECTION**</u>   <u>**PAGE**</u>

1.0   INTRODUCTION

The practices in this manual provide installation and maintenance information for the CEECO Model SSP-571-D2 Telephone.

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-D2 Hands free telephone is a sturdy, vandal resistant, Stainless Steel Panel Speakerphone. Instead of a hookswitch and handset, the SSP-571-D2 has a Press to start/Press to stop (CALL) button for the initiation and termination of phone calls.

2.2   The microphone is muted during periods of dial tone to help guard against 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 a separately supplied external DTMF keypad.

2.5   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.

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   **Press the CALL button** located on the front of the phone and **utilize the
programming keypad to enter:**

#97 #18# #19#

This will clear all user programmable memory, in order to begin.

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.

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

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

Digit 6:
0   No second-number auto-dial feature.
1-9 Activate second-number auto-dial feature to occur after **this number of rings**.

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

EXAMPLE:

Enter #00 0160020005

Phone will be set as follows:

> DIGIT 1 .. ALWAYS 0
> DIGIT 2 .. INCOMING CALLS ALLOWED
> DIGIT 3 .. 6 MINUTE TIME OUT FOR EMERGENCY CALLS
> DIGIT 4 .. ALWAYS 0
> DIGIT 5 .. ALWAYS 0
> DIGIT 6 .. ACTIVATED SECOND-NUMBER AUTO-DIAL AFTER 2
>   UNANSWEREDRINGS
> 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 access code or 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 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 3.11.

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.

3.11 When **programming is finished**, return the **mini-jumpers** to the **"OFF"** position. **Hang up the phone** by pressing the CALL button. 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 light RED at this time, and the preprogrammed number(s) will dial out on the line. A normal speakerphone conversation should be permitted when the call is answered.

4.3 If the telephone was programmed to allow second-number auto-dialing, it should automatically dial the second number, after the selected number of unanswered rings (1-9). It will continue to oscillate between the dialing of the first and second auto-dial numbers, if no answer is received.

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 into the 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.

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 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 modular jack, as depicted on the following page. The CEECO-provided modular 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 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.**

6.9   OVER-VOLTAGE PROTECTION DIAGRAM
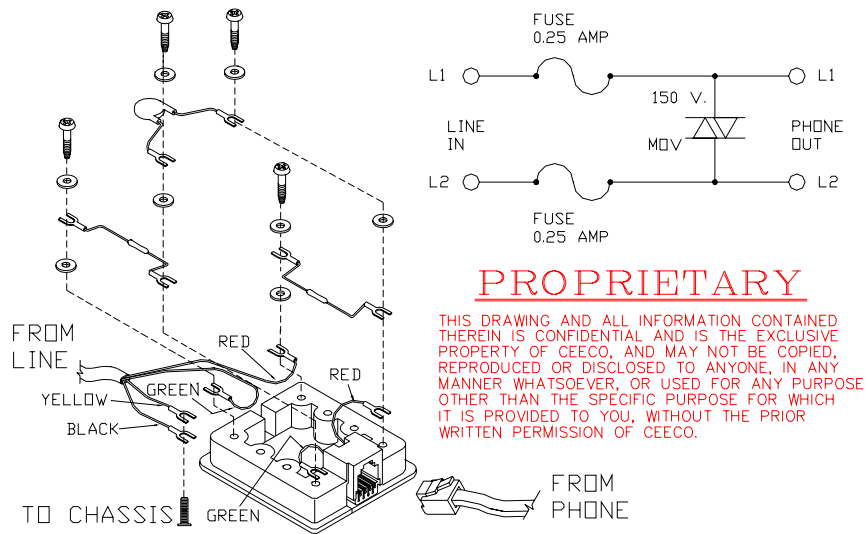
7.0   SPECIFICATIONS

INPUT POWER:	C.O. LINE POWERED
LOOP CURRENT:	30a. 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:	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	379-300	FACE PLATE
1	301-054	MODULAR CONNECTOR (RJ11C)
1	379-200	SERVICE MANUAL
1	700-008	KEYPAD CABLE
1	660-000	CEECO SPK BOARD
1	705-110	CONNECTORIZED KEYPAD
1	6020-B	MOMENTARY PANEL SWITCH
1	14123	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
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.
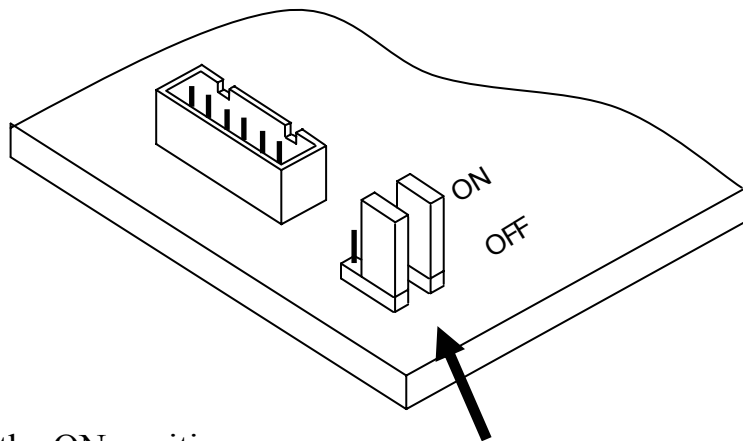
12.0 DIAGRAM

Locate the mini jumpers
on the corner of the PCB.
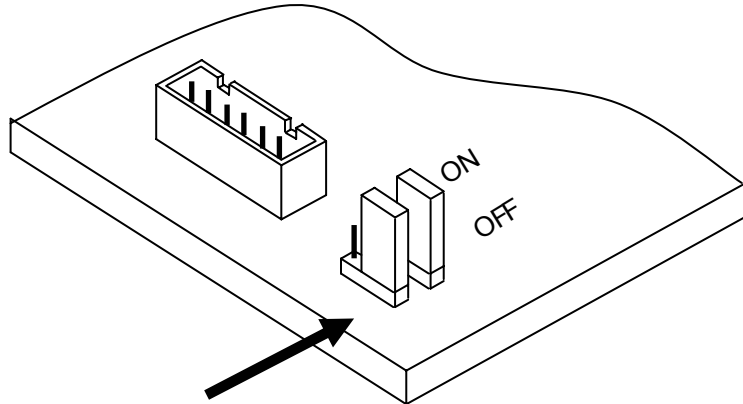
Move the **mini jumpers**
to the **ON** position
BEFORE going off-
hook.
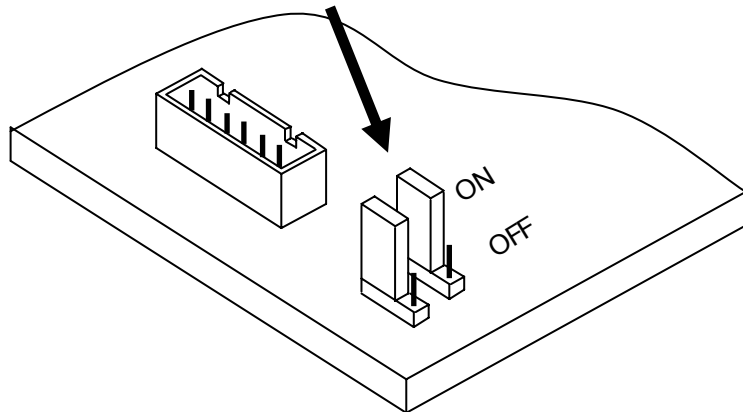
When programming is
completed, move the mini
jumpers to the **OFF**
position.

NOTE:
Do not leave the mini jumpers in the ON position;
this will decrease battery life.