

SERVICE MANUAL

FOR

MODEL SSP-550-D
(FORMERLY SSP-510-D)

HANDS FREE ELEVATOR PHONE

EQUIPPED WITH LOW-POWER SPEAKER BOARD

AND ATD11 BOARD



Serving the Telephone Industry Since 1930

*Communication Equipment
& Engineering Company*

519 W South Park Street
Okeechobee, FL 34972

Voice: 863-357-0798

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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 SSP-550-D EQUIPPED WITH LOW-POWER SPEAKER BOARD & ATD11 BOARD
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 and Engineering Company

519 W South Park Street
Okeechobee, FL 34972
863-357-0798- telephone
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1.0 INTRODUCTION

The practices in this manual provide installation and maintenance information for the CEECO Model SSP 550-D (Formerly Model SSP-510-D) 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

The CEECO Model 550-D Hands free telephone is a sturdy, vandal resistant, Stainless steel panel Speakerphone. Instead of a hookswitch and handset, the 550-D has a Press to start/Press to stop button for initiation and termination of phone calls. This Press to start/Press to stop Auto Dial button is provided for one button dialing of a preprogrammed number of up to 11 digits. Manual volume control is also provided inside the phone. The microphone is muted during the dialing sequence to prevent the use of hand-held dialers. Fully line powered, no battery backup required for memory retention.

3.0 PROGRAMMING

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

3.1 This phone has two “programmable features”, both of which are controlled by the manipulation of mini-jumpers on the PC boards. The phone can be programmed to automatically dial a number of up to eleven digits in length. The phone can also be programmed to automatically disconnect a phone call after the elapse of a selected period of time (1, 3 or 5 minutes). A pair of small needle nose pliers may be helpful with moving the mini-jumpers, however; you must be very careful not to touch the circuit boards with the pliers, as this may cause damage.

3.2 PROGRAMMING THE NUMBER TO AUTODIAL (ATD-11):

If the number to be programmed is a (1+) or long-distance call, locate the green plastic mini-jumper at the “J1” position location of the ATD11 printed circuit board. The ATD11 circuit board has a smaller board mounted to it, which has several rows and columns of copper contacts/pins on it. The “J1” position you are looking for is located just below the bottom right hand corner of that smaller piggyback board. The “J1” position has three copper contacts/pins, with a green plastic mini-jumper, and is readily identified by the “+1” that appears on the board in small white print just to its left. By moving the green plastic mini-jumper so that it bridges the middle copper pin and the far left or “+1” pin, you will cause the digit “1” to automatically dial out prior to any other programmed number. If your desired number is local or does not need a preceding one, then move the mini-jumper to bridge the middle copper pin and the far right pin. You will observe a “P” in small white print on the circuit board just right of this right hand pin.

Next, locate the green plastic mini-jumper at the “J3” position of the circuit board, which is just below the “J1” position. It could also be considered the second green plastic mini-jumper below the bottom right hand corner of the smaller piggyback board. Just left of this “J3” position, in small white print, appears “11”. Be sure this mini-jumper is placed closest to the “11”, bridging the middle and far left copper pins. The “J3” mini-jumper should always be in this position, regardless of the number you are programming.

PROGRAMMING CONTINUED...

Now let's program the number to be automatically dialed. Looking at the piggyback circuit board containing several rows and columns of copper pins, you will see ten green plastic mini-jumpers. The rows are labeled 1 thru 0 on the left side of the circuit board. The columns are labeled A thru K across the top of the circuit board and the columns of copper pins are in pairs. Each pair of copper pins represents a number to be dialed. For example, let's assume that you want to program the phone to dial 1-954-587-5430. Place the green plastic mini-jumper under column "A" across the two copper pins that align with row "9". Place the mini-jumper under column "B" so that it bridges the pair of copper pins in row "5". Place the mini-jumper under column "C" across the pair of copper pins in row "4" and so on, until the entire number is programmed. Each column represents a digit, so do not skip any. This example happens to include a long distance number, so you would move the "J1" jumper to the "+1" position. If your desired number was short, like 911 for example, the programming would be slightly different. In a case such as that, you would place the jumper under column "A" in the "9" position and the jumpers under columns "B" and "C" in the "1" position. You would then remove the seven remaining green plastic mini-jumpers, so that no erroneous digits dial out.

- 3.4** Be sure each green mini-jumper is properly positioned to make good contact and dial the intended number. Do not discard unused mini-jumpers, as you may need them in the future. It may be wise to tape them to the inside of the phone somewhere out of harms way.
- 3.5** There is one last mini-jumper location that has not been addressed yet. This jumper is positioned at the time of manufacturing to accommodate most telephone environments. If your telephone line delivers dial tone to your phone in one second or less, then you should proceed to section 3.6. If you happen to be in a long loop environment, which takes more than one second to deliver dial tone on the line, then you will need to locate the green plastic mini-jumper located at the "J2" position of the ATD11 board. On this particular model phone, the "J2" position is hidden under the low-power speaker board. You will first have to remove the screws, which secure the low-power speaker board, and gently raise the board enough to locate the mini-jumper. You must be very careful to avoid touching the circuit boards with metal objects, as this may cause damage. The "J2" position can be found approximately 1.5" – 1.75" directly below the "J1" and "J3" positions and is somewhat by itself. Position the "J2" green, plastic mini-jumper, so that it bridges the middle and far right copper pins. A "3" appears in small white print just right of this position. Placing the jumper there will cause the phone to delay 3 to 4 seconds

PROGRAMMING CONTINUED...

before dialing. This should allow the phone to accommodate those extra long loop situations in terms of time to receive dial tone. When you have completed this, carefully replace the low-power speaker board and secure it with the screws.

3.6 PROGRAMMING THE TIME OUT DISCONNECT FEATURE:

If you desire the phone to automatically disconnect the call after a specified period of time, we will discuss that now. Otherwise proceed to section 3.7.

The low power speaker board, which is the larger printed circuit board, has two green plastic mini-jumpers on it, just like the ones you have been manipulating thus far. These mini-jumpers are used to program the Time Out Disconnect feature. Locate the green plastic mini-jumper that has "JP3" written above it in small white print on the PC board. Below it, in small white print, appear the words "ON" and "OFF". Place the mini-jumper across the middle and far-left copper pins. This is the "ON" position, which activates the Time Out Disconnect feature. When this feature is not used, the jumper should be in the "OFF" position (jumper bridges the middle and far right copper pins).

When utilizing the Time Out Disconnect feature, you select a 1, 3, or 5 minute timed disconnect. Locate the green plastic mini-jumper on the same circuit board; above which appears "JP2" in small white print. Below it are "5", "3" and "1" also in small white print. Place the jumper so that it bridges the two copper pins corresponding with your selection of 1, 3, or 5 minutes.

3.7 Programming is now complete and the telephone is ready for testing/operation.

4.0 TESTING/OPERATION

Action: Connect the phone to a working telephone line or DTMF test set.
Press the "CALL" button.

Reaction: Dial tone. Red LED illuminates (If equipped)
The preprogrammed number is automatically dialed.

Action: The called party answers.

Reaction: A normal speakerphone conversation is allowed.

Action: Finish the conversation and press the "CALL" button to hang up.

Reaction: Red LED goes out. (If equipped) and the call is terminated. If you do not hang up the phone it will automatically disconnect if you programmed it as such.

5.0 RECOMMENDED TOOLS AND TEST EQUIPMENT

Volt/Ohm Meter

1/4" Nut Driver

3/8" Nut Driver

Security Tool, CEECO part number 301-037

Flat Blade Screw Driver

DTMF Test Set

6.0 INSTALLATION NOTES AND ASSEMBLY INSTRUCTIONS

- 6.1 Using a 301-037 security tool (sold separately), loosen and remove the 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 Run the inside station wire into the housing enclosure and terminate on the RJ11C terminal block inside.
- 6.4 The use of a gas tube, or carbon station protector is recommended. The station ground should not exceed 50 ohms.
- 6.5 Plug the modular line cord from the faceplate assembly into the RJ11C terminal block.
- 6.6 Dress the line cable away from the security screws and seat the faceplate into the housing enclosure.
- 6.7 Secure the faceplate 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 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
LOOP CURRENT :	23ma. min. 80ma. max.
IMPEDANCE :	600 ohms
SIGNALING :	DTMF, 70ms tone, 50ms spacing
OUTPUT :	-4.0 to -6.0dbm
ENVIRONMENTAL :	Temperature 0c to 50c Humidity 20%-90% non-condensating
PROGRAMMING :	Via DTMF keypad.
DIMENSIONS :	5"w X 7"h X 2 1/2"
MOUNTING :	Vertical Rough-in Mounting Box
MEMORY RETENTION :	Non-volatile memory control
WEIGHT :	4 Pounds
FCC REGISTRATION NO.:	BW-88T7-68447-KX-T
UL LISTED NO.:	60F5
RINGER EQUIVALENCY:	0.8A
TYPE JACK :	RJ11C

8.0 PARTS LIST

<u>QUANTITY</u>	<u>PART NUMBER</u>	<u>DESCRIPTION</u>
4	406-019	OUTER COVER SECURITY SCREW
1	301-018	MODULAR LINE CORD
1	510-000	FACE PLATE
1	301-054	MODULAR CONNECTOR (RJ11C)
1	510-200	SERVICE MANUAL
1	660-100	CEECO SPK BOARD
1	510-xxx	MOMENTARY PANEL SWITCH
1	14047	SPEAKER

ACCESSORIES :

1	301-037	SECURITY TOOL
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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 AND USE 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), 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
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 for 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 Material Authorization 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 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, acts of GOD or improper operation of equipment.

11.2 PRINTED CIRCUIT BOARDS

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