# SERVICE MANUAL

## FOR

# MODEL SSC-303-D
**(FORMERLY 303-DS)**

## STAINLESS STEEL
## AUTOMATIC DIALING TELEPHONE

## EQUIPPED WITH ADI2.01 FIMWARE

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 SSC-303-D EQUIPPED WITH ADI2.01 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 and Engineering Company

519 W South Park Street
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863-357-0798- telephone
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# 1.0 INTRODUCTION

The practices in this manual provide installation and maintenance information for the Model SSC-303-D Stainless Steel Automatic Dialing 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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**Customer Service**
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# 2.0 GENERAL DESCRIPTION

**2.1** The CEECO Model SSC-303-D Automatic Dialing Telephone is a microprocessor-based, coinless telephone, housed in a rugged stainless steel case.

**2.2** The telephone is designed to deter fraud from hand held tone dialers, hookswitch dialing and other fraudulent attempts. When the handset is lifted one or two separate telephone numbers (depending on user programming) of up to twenty-five digits may be automatically dialed. The transmitter is muted during periods of dial tone to deter fraud. Attempts to “hookswitch-dial” will cause the microprocessor to go "on hook" until the attempt has ended. It will then seize the line and dial any programmed number(s).

**2.3** Programming is accomplished via an internally mounted DTMF keypad.

**2.4** Incoming calls are not allowed.

# 3.0 PROGRAMMING

**3.1** Remove the backplate from the telephone and **connect the telephone** modular cord to a DTMF test set or a working telephone line.

**3.2** Looking at the rear of the phone, **connect the programming keypad** to the white connector, which is hanging freely inside the phone. This connector attaches to seven different colored wires and has a similar end, which is already connected to the Printed Circuit Board.

**3.3** Locate the two plastic **mini-jumpers** on the corner of the Printed Circuit Board and move them to the **"ON" position**, as depicted on the last page of this manual. Lift the handset and wait for dial tone.

**3.4** Utilizing the programming keypad, **enter # 9 7** on the keypad. This **will clear all** field programmable memory.

**NOTE:** During programming it is essential to press the keys deliberately and slowly. Missed or partial tones will result in improper programming.

**3.5** If the phone must **automatically dial a number**, when the handset is lifted, **enter # 1 9** on the programming keypad, **followed by the desired number** of up to twenty-five (25) digits in length. Once programmed, this number will always dial, when the handset is lifted.

**EXAMPLE:** Entering #1918005551212 on the programming keypad will cause the phone to automatically dial the number 1-800-555-1212, when the handset is lifted.

- Be sure to record your number in the Location #19 Table below for future reference.

**LOCATION #19 TABLE:**

— — — — — — — — — — — — — — — — — — — — — — — —

**3.6** If the phone must **automatically dial a second number,** when the handset Is lifted, **enter # 2 0** on the programming keypad, **followed by the desired number** of up to twenty-five (25) digits in length. In order for the phone to dial the number stored in the #20 programming location, you must select a "1" for Digit 1, under the #00 programming location (refer to next section-3.7). You must also make selections for Digits 2 and 3 accordingly. Location #19 **must** be used in order to use Location #20.

## PROGRAMMING CONTINUED…

**EXAMPLE:** Entering #2019545875430 on the programming keypad will cause the phone to automatically dial the number 1-954-587-5430, when the handset is lifted.

- Be sure to record your number in the Location #20 Table below for future reference.

**LOCATION #20 TABLE:**

— — — — — — — — — — — — — — — — — — — — — — — — — —

**SCENARIO:** Location #19 might be programmed to dial "9" for an outside line. Location #20 might be programmed to dial 1-800-555-1212, after the outside line is established. The programming sequence would be #199#2018005551212, which is entered on the programming keypad.

**3.7** **Enter # 0 0** on the keypad. This accesses the **telephone options** programming location. Now **enter three digits**, which you will select from the options below, to customize the phone for the particular installation.

Digit 1

0 Do not dial the number in location #20.
1 Dial the number in location #20.

Digit 2

0 Wait for dial tone before dialing the number in location #20.
1 Wait for 1-9 seconds (depending on digit 3 below) before dialing number in location #20.

Digit 3

1-9 Number of seconds to wait before dialing number in location #20.

- Be sure to record your selections in the **OPTIONS TABLE** below for future reference:

**OPTIONS TABLE: # 0 0 __ __ __**

**3.8** Programming is now completed. **Hang up** the phone and return the two plastic **mini-jumpers** to the **"OFF"** position as depicted on the last page of this manual. The phone is now ready for Testing/Operation.

# 4.0 TESTING/OPERATION

**4.1** With the phone connected to a working phone line or a DTMF test set, lift the handset. The telephone will wait for dial tone. When dial tone is detected any number programmed as the first auto dial number (memory location #19) will be dialed. The handset transmitter should be muted (off) until dialing is complete. If the intended number does not dial out, repeat sections 3.3, 3.5, and 3.8 only. If this does not solve the problem, refer to section 10.2 please.

**4.2** If there is a second number to auto dial (memory location #20), the phone will either wait for the return of dial tone or wait the appropriate time (depending on the programming selected under Location #00 Digit 2) and dial that second number. Remember that Digit 1, under Location #00 must be set to "1" for Location #20 to be enabled. If the second number does not dial out, repeat sections 3.3, 3.5, 3.6, 3.7 and 3.8. If this does not solve the problem, please refer to section 10.2.

**4.3** Normal phone operation should follow. Have the called party hang up. Wait for the central office equipment to time out and return dial tone. Shortly after dial tone is received, three tones should be heard. The phone will open the line and remain in this condition until the handset is placed on hook. The handset transmitter and receiver will be disabled during this period.

**4.4** Attempt to "hookswitch dial" by tapping quickly on the hookswitch. The telephone should hang up, seize the telephone line and dial the programmed auto dial number(s), when dial tone is received again.

# 5.0 RECOMMENDED TOOLS AND TEST EQUIPMENT

DTMF Test Set
Volt/Ohm Meter
1/4" Nut Driver
5/16" Nut Driver
Flat Blade Screw Driver
Security Tool 301-037

## 6.0 INSTALLATION NOTES AND ASSEMBLY INSTRUCTIONS

**6.1** Using a 301-037 security tool (sold separately), loosen (do not remove) the locking screw and remove the security screws on either side of the telephone. The security tool is for a standard 5/32" button head screw generally used on the framework of the phone booths.

**6.2** Separate the cover assembly from the backplate assembly. The backplate assembly may be installed on any standard backboard or coin phone enclosure.

**6.3** Run the inside station wire through the backplate assembly and terminate on to the RJ11C terminal block on the backplate.

**6.4** The use of a gas tube station protector is recommended. The station ground should not exceed 50 ohms.

**6.5** Install the instruction card, instruction card window and instruction card frame using the eight retaining nuts provided. A 5/16 inch nut driver is required.

**6.6** Plug the modular line cord from the cover assembly into the RJ11C terminal block. Dress the line cable away from the locking screw and install the cover assembly by hanging it on the four hook shaped supports.

**6.7** Secure the cover assembly by tightening the security screws on either side of the case and the locking screw on the front of the case.

*******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 |
| HEARING AID COMPATIBLE: | Meets EIA Standards |
| ENVIRONMENTAL: | Temperature 0C to 50C<br>Humidity 20%-90% Non-condensating |
| PROGRAMMING: | Via DTMF Keypad |
| TELEPHONE PANEL: | Stainless Steel, 14 gauge |
| DIMENSIONS: | 7 1/2" Wide x 21" High x 6 1/2" Deep (Handset on hook) |
| MOUNTING: | Standard Coinless Public Telephone footprint |
| MEMORY RETENTION: | Lithium Battery – Long Life |
| WEIGHT: | Approximately 17 Pounds |
| FCC REGISTRATION: | BW-88T7-13823-TE-T |
| UL LISTED NO.: | 6OF5 |
| RINGER EQUIVALENCY: | 0.7A |
| TYPE JACK: | RJ11C |
| PROGRAM VERSION: | ADI 2.01 |

# 8.0 FCC NOTICE

## **8.1** 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.

## **8.2** 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.

## **8.3** 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.

## 9.0 PARTS LIST

| QUANTITY | PART NUMBER | DESCRIPTION |
|---|---|---|
| 1 | 301-221 | MODEL 301-DS COVER |
| 1 | 301-051 | MODEL 301 BACKPLATE |
| 1 | 301-052 | RUBBER GROMMET |
| 1 | 301-054 | MODULAR CONNECTOR-RJ11C |
| 1 | 301-018 | MODULAR LINE CORD |
| 1 | 301-039 | NUMBER WINDOW |
| 1 | 301-040 | NUMBER CARD |
| 1 | 301-588 | HOOKSWITCH CRADLE |
| 1 | 301-581 | TONGUE & BRACKET ASSY. |
| 2 | 301-570 | MICROSWITCH ASSY. |
| 1 | 705-110 | CONNECTORIZED KEYPAD |
| 1 | 700-008 | KEYPAD CABLE |
| 1 | 301-030 | INSTRUCTION CARD KIT |
| 1 | 301-009 | NETWORK |
| 1 | 301-004 | HANDSET, ARMORED CORD |
| 1 | 301-012 | OUTER COVER LOCK SCREW |
| 1 | 308-015 | HANDSET SWIVEL |
| 1 | 650-541 | MCRK-2 PCB ASSEMBLY |
| ACCESSORIES: | | |
| 1 | 301-037 | SECURITY TOOL |

# 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 original 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 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 12 months from the date of original shipment, if properly installed and maintained. This warranty is limited to the value of material only.

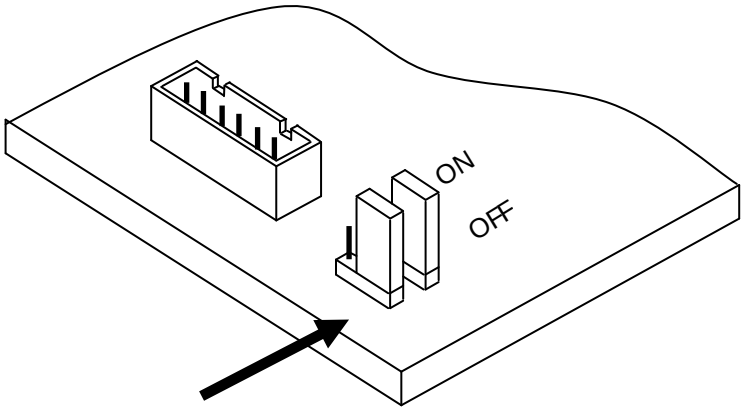
CEECO will repair or replace any unit during this period if found to be defective for reasons other than abuse and improper use or improper installation. It is the buyer's responsibility to return the defective unit to the factory. CEECO will then repair or replace any defective parts and return them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

## **11.2** PRINTED CIRCUIT BOARDS

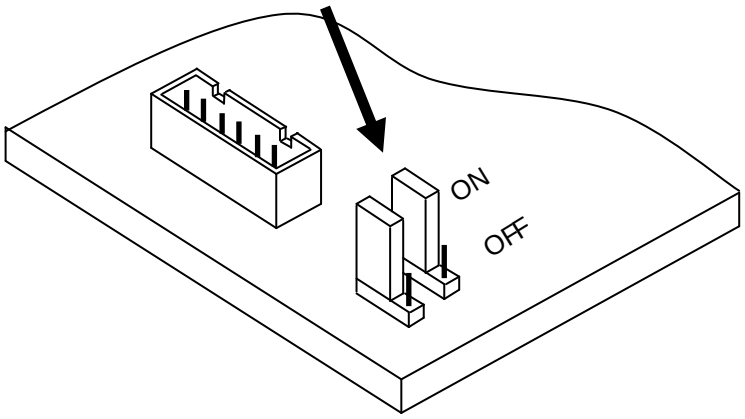
Printed circuit boards should not be field repaired. If a unit is found to be faulty, replace it with another unit and return the faulty unit to CEECO for repair. Modifications by anyone other than CEECO will void the warranty.

## 12.0 DIAGRAM

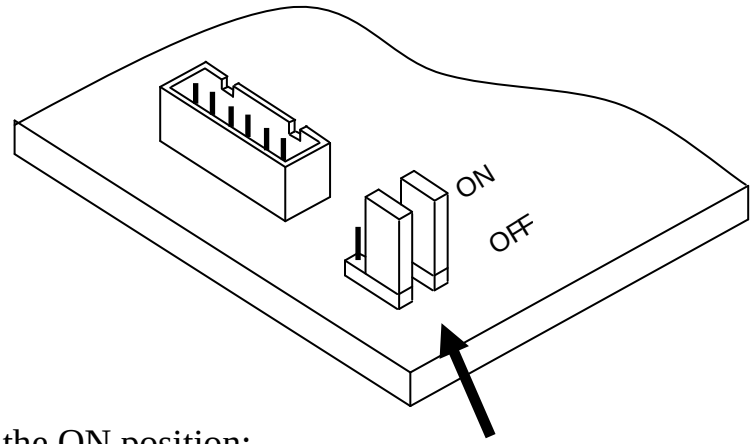
Locate the mini jumpers on the corner of the PCB.




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.