

SERVICE MANUAL

FOR

MODEL SSP-351-D

(FORMERLY SSP-310-D)

STAINLESS STEEL PANEL TELEPHONE

EQUIPPED WITH ATD-11 BOARD



Serving the Telephone Industry Since 1930

*Communication Equipment
& Engineering Company*

1580 NW 65th Avenue

Plantation, FL 33313

Voice: 954-587-5430

Fax: 954-587-5440

IMPORTANT INFORMATION FOR CUSTOMER

Please fill in before you continue.

The following information is necessary when calling CEECO for assistance.

MODEL NUMBER	MODEL SSP-351-D STAINLESS STEEL PANEL TELEPHONE.
SERIAL NUMBER	
DATE MANUFACTURED	
LOCATION INSTALLED	

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

CEECO

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TABLE OF CONTENTS

<u>SECTION</u>	<u>PAGE</u>
1.0 INTRODUCTION	4
2.0 GENERAL DESCRIPTION	4
3.0 PROGRAMMING	5
PROGRAMMING DIAGRAM	6
PROGRAMMING CONTINUED.....	7
4.0 TESTING/OPERATION.....	7
5.0 RECOMMENDED TOOLS AND TEST EQUIPMENT	7
6.0 INSTALLATION NOTES AND ASSEMBLY INSTRUCTIONS..	8
7.0 SPECIFICATIONS	10
8.0 PARTS LIST	11
9.0 FCC NOTICE.....	12
10.0 REPAIR AND RETURN INFORMATION.....	13
11.0 WARRANTY POLICY	14

1.0 INTRODUCTION

The practices in this manual provide installation and maintenance information for Model SSP-351-D Stainless Steel Panel Telephone.

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
1580 NW 65th Avenue
Plantation, FL 33313

(954) 587-5430
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2.0 GENERAL DESCRIPTION

The CEECO Model SSP-351-D Stainless Steel Panel Telephone is an automatic tone dialing phone designed for special applications where a telephone must fit into a standard 4 gang mounting box. It is equipped with an ATD-11 automatic tone dialer that will dial a single number of up to eleven (11) digits. The automatic dialing feature is activated by hookswitch closure. The SSP-351-D is not designed for incoming calls and, therefore; is not equipped with a ringer.

3.0 PROGRAMMING

NOTE: It is recommended that you ground yourself to prevent ESD damage to the PCB(s). This can be done through the use of an electrostatic bracelet or other such device. In the absence of any such device, it might suffice to simply touch a conduit or other grounded pipe or object to dissipate any built up static electricity.

- 3.1 **Please refer to the diagram on the next page for mini-jumper location and positioning.** Programming is accomplished by position plastic hardware mini-jumpers in the proper positions for the desired calling pattern. The mini-jumpers are designed to bridge pairs of copper pins to activate the desired dialing pattern.
- 3.2 Locate the ATD-11 Automatic Dialer.
- 3.3 If the number to be programmed is a (1+) call, position the J1 mini-jumper on the "1+" position, bridging the left and center copper pins. This will cause the digit "1" to be dialed in front of the other programmed digits. If the number to be programmed is a local call, position the J1 mini-jumper on the "B" position, bridging the center and right copper pins.
- 3.4 If a 3 digit area code is to be dialed, the J3 mini-jumper **must** be set to the "11" position, bridging the center and left copper pins. If the number being dialed does not require the area code, position the J3 mini-jumper on the "8" position, bridging the center and right copper pins.
- 3.5 Set each mini-jumpers on the A-K matrix board to correspond to the digits of the number to be dialed. Beginning with column "A" at the top, position the plastic mini-jumper to bridge the pair of copper pins correspond to the desired digit (1-0). Proceed in the same manner, from left to right, until all desired digits are programmed. Do not skip any columns, as the digits must be represented in an unbroken string. Any unused mini-jumpers **must** be removed from the board to ensure proper dialing. Do not discard the unused jumpers, as they may be needed for future use. It is recommended that they be taped or otherwise secured somewhere nearby, within the device.
- 3.6 Be sure each mini-jumper is properly positioned to make good contact and dial the intended number.

PROGRAMMING DIAGRAM:

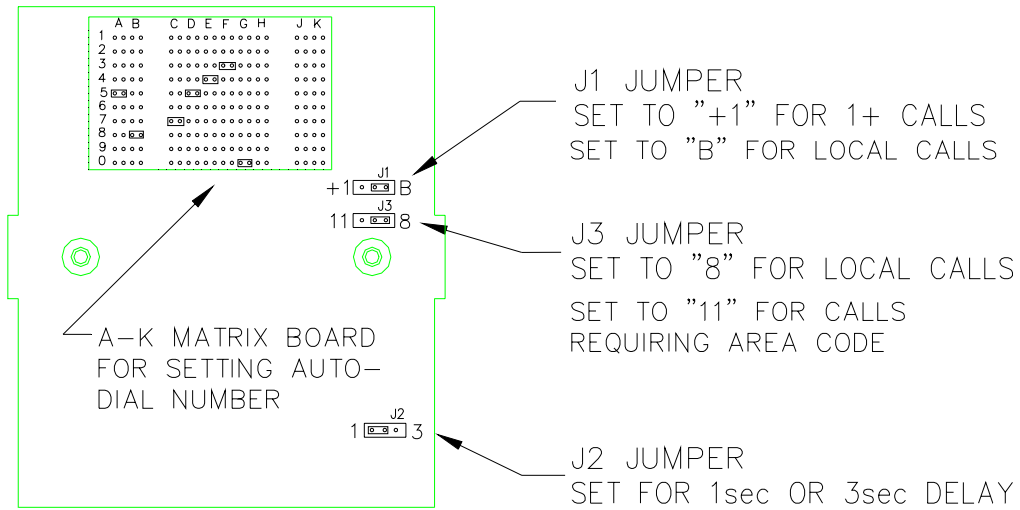


ILLUSTRATION DEPICTS SETTINGS WHICH WILL AUTO DIAL THE LOCAL NUMBER 587-5430 WITH A NORMAL 1 SEC. DIAL TONE DELAY.

NOTE: UNUSED JUMPERS MUST BE REMOVED FROM BOARD. RETAIN THEM FOR FUTURE USE.

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 IT IS PROVIDED TO YOU, WITHOUT THE PRIOR
 WRITTEN PERMISSION OF CEECO.

ATD-11 PCB
 AUTOMATIC TONE DIALER

PROGRAMMING CONTINUED...

3.7 In most installations, the J2 mini-jumper will remain in the "1" position, bridging the center and left copper pins. If dial tone delivery is delayed by more than one second; however, then J2 will have to be set in the "3" position. A simple test would be as follows: with the telephone line cord connected to the intended telephone line, temporarily remove the J2 mini-jumper. As accurately as possible, measure the time delay between the moment the handset is lifted and the moment the phone receives dial tone. Try it several times. If this time is consistently 1 second or less, position the J2 jumper on the "1" position. Otherwise position the J2 jumper on the "3" position to set the delay before dialing to 3 to 4 seconds.

4.0 TESTING/OPERATION

- 4.1** Program the phone according to section 3.0
- 4.2** Lift the handset. Phone waits one and one half to four seconds (depending on the position of J2 per Section 3.7). The programmed number is automatically dialed.
- 4.3** The transmitter is muted while the phone is dialing.
- 4.4** Incoming calls are not able to be detected, due to the lack of a ringer.

5.0 RECOMMENDED TOOLS AND TEST EQUIPMENT

Volt/Ohm Meter
1/4" Nut Driver
Flat Blade Screw Driver
Security Tool, CEECO Part Number 301-064

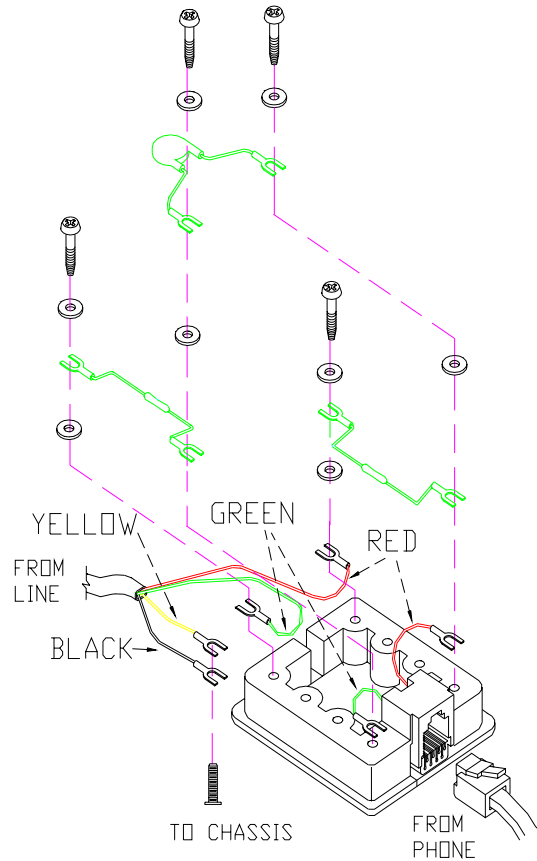
6.0 INSTALLATION NOTES AND ASSEMBLY INSTRUCTIONS

- 6.1 Using a 301-064 security tool (sold separately) and a 3/8" wrench or nut driver, 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 Separate the faceplate assembly from the weatherproof housing by pulling the faceplate forward.
- 6.4 Run the inside station wire into the enclosure and terminate on the RJ11C terminal block inside. As depicted on the following page. The CEECO provided terminal block (jack) **must** be used, as it contains required over-voltage protection circuitry.
- 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 faceplate assembly into the RJ11C terminal block.
- 6.7 Two extra potential free contacts (one N/O and one N/C) are provided from the push-button for interfacing external triggering devices. Please understand the instructions of triggering devices before interfacing it with the phone.
- 6.8 Dress the line cable away from the security screws and seat the faceplate into the housing enclosure.
- 6.9 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.**

6.10 OVER-VOLTAGE PROTECTION DIAGRAM



PROPRIETARY

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7.0 SPECIFICATIONS

INPUT POWER:	C.O. Line Powered
LOOP CURRENT:	23mA min to 80mA max
IMPEDANCE:	600 ohms
SIGNALING:	DTMF, 70ms tone, 50ms spacing
HEARING AID COMPATIBLE:	Meets EIA standards
ENVIRONMENTAL:	Temperature 0°C to 50°C Humidity 20%-90% non-condensating
PROGRAMMING:	Via 10-Position Matrix Switch
TELEPHONE COVER:	Brushed 16 ga. Stainless Steel
DIMENSIONS:	4.55" Wide x 8 1/4" High x 2.60" inside box x 3.10" outside box with handset on hook
MOUNTING:	Standard 4 gang electrical box
MEMORY RETENTION:	Hardware
WEIGHT:	Approximately 3 lb.
RINGER EQUIVALENCY:	0.4A
FCC REGISTRATION:	BW-88T7-13716-TE-T
UL LISTED NO.:	6OF5
TYPE JACK:	RJ11C

8.0 PARTS LIST

<u>QUANTITY</u>	<u>PART NUMBER</u>	<u>DESCRIPTION</u>
1	350-169	ATD-11 Automatic Tone Dial
1	301-004	Handset with Armored Cord
1	301-009	Network
1	301-588	Hookswitch Cradle
1	301-581	Tongue and Bracket
2	301-570	Microswitch
1	301-018	Modular Cord
1	331-003	Stainless steel panel
1	310-101	Dialer/Network Mounting Bracket
4	311-008	Security Screw #6-32 x 1 1/2"

OPTIONS:

1	301-001	Mounting Box
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. 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 (your phone number) and the telephone's FCC registration number and ringer equivalence number. These numbers are listed in Section 9.0.

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
1580 NW 65th Avenue
Plantation, FL 33313

(954) 587-5430

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 not authorized for return is subject to a 15% restocking charge based on the manufacturers 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 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.

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 any one other than CEECO will void the warranty.

