SERVICE MANUAL

FOR

MODEL SSP-363-F

STAINLESS STEEL PANEL TELEPHONE

EQUIPPED WITH SPD2.01 FIRMWARE

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-363-F STAINLESS STEEL PANEL TELEPHONE EQUIPED WITH SPD2.01 FIRMWARE.
SERIAL NUMBER	
DATE MANUFACTURED	
LOCATION INSTALLED	

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

CEECO

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1.0 INTRODUCTION

The practices in this manual provide installation and maintenance information for the Model SSP-363-F Stainless Steel Panel Telephone with version SPD2.01 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 DESCRIPTION

The CEECO Model SSP-363-F Stainless Steel Panel Telephone is designed for speed dialing applications. The telephone may be programmed to speed dial up to ninety-two (92) different numbers (00-92). When the telephone is in operation, each preprogrammed speed dial number is automatically dialed, when the corresponding two-digit code is pressed on the keypad. This is a microprocessor based, coinless telephone designed to eliminate fraud from hand held tone dialers, hookswitch dialing and other fraudulent attempts. The transmitter is muted during periods of dial tone preventing the use of hand held dialers. Attempts to hookswitch dial will cause the microprocessor to go "on hook" and refresh the dial tone.

3.0 PROGRAMMING

THIS EQUIPMENT IS TELEPHONE LINE POWERED. DURING PROGRAMMING THE CENTRAL OFFICE OR PBX MAY RESPOND TO THE PROGRAMMING CODES WITH VARIOUS BUSY TONES, REORDER TONES RECORDINGS, ETC. THESE TONES AND RECORDINGS WILL HAVE NO EFFECT ON THE PROGRAMMING. PLEASE IGNORE THEM. ALL PROGRAMMING IS DONE THROUGH THE UNIT KEYPAD.

3.1 **Connect** the line cord from the **telephone** to a DTMF test set. If a DTMF test set is not available then connect the line cord to a working telephone line.

NOTE: Be sure to avoid contacting the Printed Circuit Board with metal parts, otherwise permanent damage may occur to the board.

PROGRAMMING CONTINUED…

3.2 Locate the two plastic **mini-jumpers** on the corner of the Printed Circuit Board. Place them in the **"ON"** position, as depicted in the diagram on the last page of this manual.

3.3 **Lift the handset** (off-hook condition) and wait for dial tone to begin programming.

3.4 **Enter # 9 7** on the keypad. This will clear all user programmable memory, to begin programming.

3.5 Programming consists of entering the **# key**, followed by a **two digit code (00 thru 92)** corresponding to the desired memory location, followed by the **desired speed dial number**. The speed dial numbers may be up to eleven digits in length.

For example: Enter # 0 0, followed by 5 5 5 1 2 1 2. This will program the phone to automatically dial the number 555-1212, when 0 0 is entered on the keypad.

Numbers may be programmed one after another by pressing the # key before the next location code. The telephone does not have to be placed on hook after each location is programmed.

> For example: #705551212#7118005558989 will enter the number 555-1212 into the #70 location and the number 1-800-555-8989 into the #71 location. Thus, when the phone is in operation, pressing 7 0 on the keypad will cause the number 555-1212 to automatically dial, and pressing 7 1 on the keypad will cause the number 1-800-555-8989 to automatically dial.

3.6 An individual number may be erased or changed by entering the # key followed by the two-digit location code (#00-#92).

Example: Entering # 0 2 would erase the contents of that speed dial location. Entering #02, followed by a new speed dial number (1-11 digits in length) will reprogram that new speed dial number into location #02.

3.7 Be sure **log the programmed speed dial numbers** into the Programming Tables on the next pages for future reference.

3.8 When programming is **complete**, move the **mini-jumpers** back to the **"OFF"** position, as depicted on the last page of this manual, and hang up the phone.

4.0 PROGRAMMING TABLE

LOCATION	NUMBER	LOCATION	NUMBER
#00 _ -	___-___-____	#16 _ -	___-___-____
#01 _ -	___-___-____	#17 _ -	___-___-____
#02 _ -	___-___-____	#18 _ -	___-___-____
#03 _ -	___-___-____	#19 _ -	___-___-____
#04 _ -	___-___-____	#20 _ -	___-___-____
#05 _ -	___-___-____	#21 _ -	___-___-____
#06 _ -	___-___-____	#22 _ -	___-___-____
#07 _ -	___-___-____	#23 _ -	___-___-____
#08 _ -	___-___-____	#24 _ -	___-___-____
#09 _ -	___-___-____	#25 _ -	___-___-____
#10 _ -	___-___-____	#26 _ -	___-___-____
#11 _ -	___-___-____	#27 _ -	___-___-____
#12 _ -	___-___-____	#28 _ -	___-___-____
#13 _ -	___-___-____	*#29* _ -	___-___-____
#14 _ -	___-___-____	#30 _ -	___-___-____
#15 _ -	___-___-____	#31 _ -	___-___-____

PROGRAMMING TABLE CONTINUED…

LOCATION	NUMBER	LOCATION	NUMBER
#32	_-___-___-____	#48	_-___-___-____
#33	_-___-___-____	#49	_-___-___-____
#34	_-___-___-____	#50	_-___-___-____
#35	_-___-___-____	#51	_-___-___-____
#36	_-___-___-____	#52	_-___-___-____
#37	_-___-___-____	#53	_-___-___-____
#38	_-___-___-____	#54	_-___-___-____
#39	_-___-___-____	#55	_-___-___-____
#40	_-___-___-____	#56	_-___-___-____
#41	_-___-___-____	#57	_-___-___-____
#42	_-___-___-____	#58	_-___-___-____
#43	_-___-___-____	#59	_-___-___-____
#44	_-___-___-____	#60	_-___-___-____
#45	_-___-___-____	#61	_-___-___-____
#46	_-___-___-____	#62	_-___-___-____
#47	_-___-___-____	#63	_-___-___-____

PROGRAMMING TABLE CONTINUED…

LOCATION	NUMBER	LOCATION	NUMBER
#64 _ - _ _ _ - _ _ _ - _ _ _ _		#67 _ - _ _ _ - _ _ _ - _ _ _ _	
#65 _ - _ _ _ - _ _ _ - _ _ _ _		#68 _ - _ _ _ - _ _ _ - _ _ _ _	
#66 _ - _ _ _ - _ _ _ - _ _ _ _		#69 _ - _ _ _ - _ _ _ - _ _ _ _	
#70 _ - _ _ _ - _ _ _ - _ _ _ _		#82 _ - _ _ _ - _ _ _ - _ _ _ _	
#71 _ - _ _ _ - _ _ _ - _ _ _ _		#83 _ - _ _ _ - _ _ _ - _ _ _ _	
#72 _ - _ _ _ - _ _ _ - _ _ _ _		#84 _ - _ _ _ - _ _ _ - _ _ _ _	
#73 _ - _ _ _ - _ _ _ - _ _ _ _		#85 _ - _ _ _ - _ _ _ - _ _ _ _	
#74 _ - _ _ _ - _ _ _ - _ _ _ _		#86 _ - _ _ _ - _ _ _ - _ _ _ _	
#75 _ - _ _ _ - _ _ _ - _ _ _ _		#87 _ - _ _ _ - _ _ _ - _ _ _ _	
#76 _ - _ _ _ - _ _ _ - _ _ _ _		#88 _ - _ _ _ - _ _ _ - _ _ _ _	
#77 _ - _ _ _ - _ _ _ - _ _ _ _		#89 _ - _ _ _ - _ _ _ - _ _ _ _	
#78 _ - _ _ _ - _ _ _ - _ _ _ _		#90 _ - _ _ _ - _ _ _ - _ _ _ _	
79 _ - _ _ _ - _ _ _ - _ _ _ _		#91 _ - _ _ _ - _ _ _ - _ _ _ _	
#80 _ - _ _ _ - _ _ _ - _ _ _ _		#92 _ - _ _ _ - _ _ _ - _ _ _ _	
#81 _ - _ _ _ - _ _ _ - _ _ _ _			

5.0 TESTING/OPERATION

When the phone is connected to the phone line and programmed according to section 3, the phone operates as follows:

5.1 When the telephone handset is lifted, dial tone is heard and the keypad is operational. Before and during dialing, the transmitter is turned off.

5.2 To automatically dial (speed dial) a programmed number, the keypad is used to enter the two-digit code that corresponds to that number. Refer to the Speed Dial Table in section 3, where the speed dial numbers should be logged. The phone automatically dials the programmed number and the transmitter turns on. A normal phone conversation may take place. The keypad is available for use, once the speed dial number is released.

5.3 At the completion of the call, the handset is returned to the cradle, which hangs up the phone.

5.4 Each of the programmed locations should function in this manner.

6.0 RECOMMENDED TOOLS AND TEST EQUIPMENT

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

*The security tool is for a standard 5/32" Button head screw generally used on the framework of the phone booths.

7.0 INSTALLATION NOTES AND ASSEMBLY INSTRUCTIONS

7.1 When servicing the telephone, be sure to avoid contacting the Printed Circuit Board with metal objects, otherwise permanent damage may occur to the board.

7.2 Using a 301-064 security tool (sold separately), loosen and remove the security screws.

7.3 The security tool is for a standard 1/8" button head screw generally used on the framework of telephone booths.

7.4 Separate the cover assembly from the housing by lifting the faceplate up and away from the housing.

.

7.5 The housing is designed for mounting on any flat vertical surface. Mounting holes are provided.

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

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

7.8 Plug the modular line cord from the cover assembly into the RJ11C terminal block.

7.9 Dress the line cable away from the security screws. Install the faceplate into the housing and secure it by tightening the security screws.

*******WARNING*******

A. Never install telephone wiring during a lightening storm.

B. Never install telephone jacks in west 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.

8.0 TROUBLESHOOTING

Always visually check the phone for loose or shorted wires, damaged terminals, or damaged parts. Ensure that programming has been completed properly.

PROBLEM: NO DIAL TONE	POSSIBLE CAUSE: LINE CORD RJ11C CONNECTOR NETWORK HANDSET PC BOARD NETWORK CABLE ASSY HOOKSWITCH ASSY MICROPROCESSOR
PROBLEM: DIAL TONE IS DISTORTED	POSSIBLE CAUSE: NETWORK HANDSET PC BOARD NETWORK CABLE ASSY HOOKSWITCH ASSY
PROBLEM: TRANSMITTER DOES NOT TURN ON	POSSIBLE CAUSE: HANDSET NETWORK PC BOARD
PROBLEM: KEYPAD DOES NOT OPERATE PROPERLY	POSSIBLE CAUSE: KEYPAD KEYPAD CABLE ASSY PC BOARD
PROBLEM: LOSES MEMORY CONTENTS AFTER EXTENDED PERIODS OF NO USE	POSSIBLE CAUSE: LITHIUM BATTERY
PROBLEM: PHONE CANNOT BE PROGRAMMED	POSSIBLE CAUSE: KEYPAD KEYPAD CABLE ASSY PC BOARD MINI-JUMPERS WRONG

9.0 SPECIFICATIONS

INPUT POWER:	C.O. Line powered
LOOP CURRENT:	23ma minimum
IMPEDANCE:	600 ohms
SIGNALING:	DTMF, 70ms tone, 50ms spacing
OUTPUT:	-10.0 to -12.0dbm
HEARING AID COMPATIBLE:	Meets EIA standards
ENVIRONMENTAL:	Temperature 0oC to 50oC Humidity 20%-90% non condensating.
PROGRAMMING:	Via DTMF keypad.
TELEPHONE PANEL:	Brushed 16 ga. Stainless Steel
DIMENSIONS:	10.12" Wide x 13.12" High x 2.75" Deep
MOUNTING:	Vertical surface mount
MEMORY RETENTION:	Lithium Battery – Long Life
FCC REGISTRATION:	BW88T7-13823-TE-T
UL LISTED NO.:	6OF5
RINGER EQUIVALENCE:	0.8A
TYPE JACK:	RJ11C

10.0 PARTS LIST

PART NUMBER	DESCRIPTION
301-04	Handset with armored cord
301-005	Ferrule
301-009	Network
301-588	Hookswitch cradle
301-581	Tongue and bracket assembly
301-018	30" Modular cord
301-051	Modular jack
301-052	Grommet
321-010	Stainless steel cover
321-015	Stainless steel back plate
321-016	1/4"x20"x3/4" security screw
650-520W	MCRK-2 Autodialer - SPD 2.01
650-570	Network cable
705-110	Chrome keypad - alphanumeric
700-008	Keypad cable
Accessories:	
301-037	Security tool
700-004 LNB	Chrome keypad - large number

11.0 FCC NOTICE

11.1 FCC REGISTRATION AND REPAIR INFORMATION

Your new telephone has been registered with the Federal Communication Commission (FCC) in accordance with Part 68 of it's rules. The FCC requires that you be advised of certain requirements involving the use of this telephone.

11.2 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.

11.3 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 9.00.

The FCC further requires that you notify your local telephone company when permanently disconnecting this telephone

12.0 REPAIR AND RETURN INFORMATION

12.1 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.

12.2 DIRECT ALL INQUIRES TO:

CEECO
Repair Department
863-357-0798- telephone
863-357-0006- facsimile
info@ceeco.net
www.ceeco.net

12.3 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.

12.4 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.

12.5 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.

13.0 WARRANTY POLICY

13.1 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.

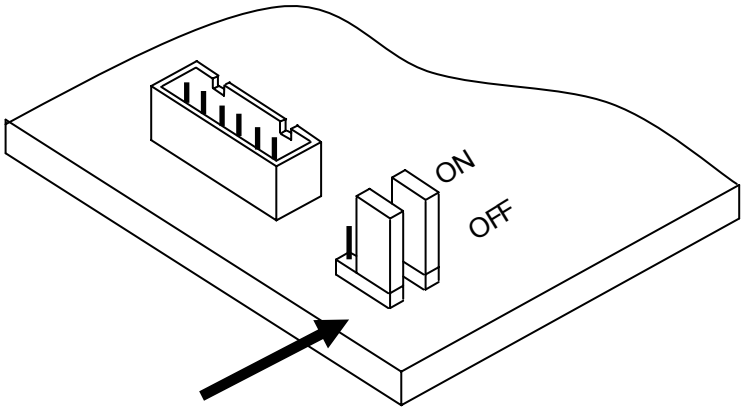
CEECO will repair or replace any unit during this period if found to be defective for reasons other than abuse and improper use or improper installation. It is the buyer's responsibility to return the defective unit to the factory. CEECO will then repair or replace any defective parts and return them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

13.2 PRINTED CIRCUIT BOARDS

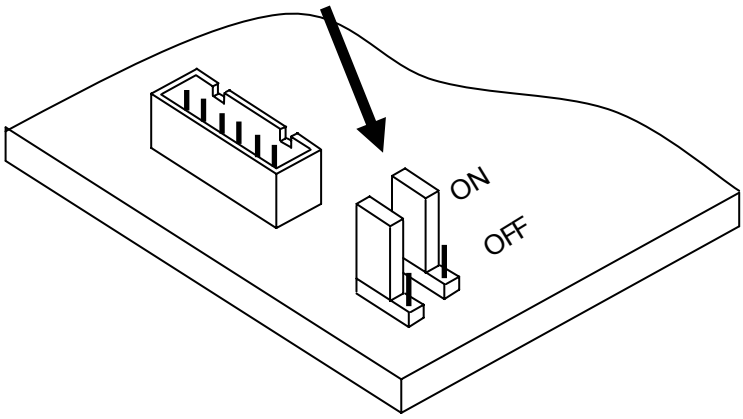
Printed circuit boards should not be repaired in the field. If a unit is found to be faulty, replace it with another unit and return the faulty unit to CEECO for repair. Modifications by anyone other than CEECO will void the warranty.

14.0 DIAGRAM

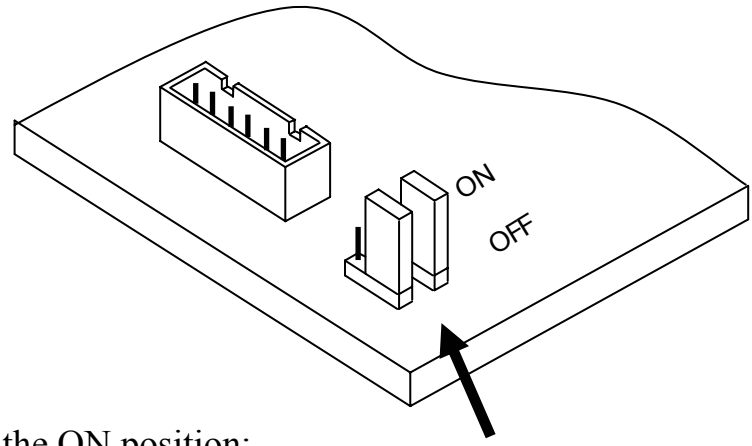
Locate the mini jumpers on the corner of the PCB.



MOVE THE **MINI-JUMPERS** TO THE **ON** POSITION **BEFORE** GOING OFF-HOOK.



When programming is completed, move the **mini -jumpers** to the **OFF** position.



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