

# **SERVICE MANUAL**

**FOR**

## **MODEL**

### **WPP-333-F**

**WEATHERPROOF TELEPHONE**

**OR**

### **HOB-333-F**

**WEATHER RESISTANT TELEPHONE**

**OR**

### **SSP-313-F**

**STAINLESS STEEL PANEL TELEPHONE**

**EQUIPED WITH SPD2.01 SOFTWARE**



*Serving the Telephone Industry Since 1930*

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*Communication Equipment  
& Engineering Company*

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519 W South Park Street

Okeechobee, FL 34972

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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.

<b>MODEL NUMBER</b>	MODEL WPP-333-F, HOB-331-F OR SSP-313-F EQUIPPED WITH SPD2.01 FIRMWARE
<b>SERIAL NUMBER</b>	
<b>DATE MANUFACTURED</b>	
<b>LOCATION INSTALLED</b>	

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

## CEECO

**Communication Equipment and Engineering Company**

519 SW Park Street  
Okeechobee, FL 34972  
863-357-0798- telephone  
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# INTRODUCTION

The practices in this manual provide installation and maintenance information for CEECO Model SSP-313-F, WPP 333-F Weatherproof Telephone, and HOB-331-F Weather Resistant Telephone equipped with 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:

**CEECO**  
**Customer Service**  
519 SW Park Street  
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863-357-0798- telephone  
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## 1.0 GENERAL DESCRIPTION

The CEECO Model SSP-313-F, WPP 333-F Weatherproof Telephone, and HOB-331-F Weather Resistant Telephone is a microprocessor-based coinless telephone designed to deter fraud from hand held tone dialers, hookswitch dialing and other fraudulent attempts. The transmitter can be 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” until the attempt has ended. Incoming calls are not allowed. The steel panel and chrome plated tone dial are vandal resistant. An armored cord, hearing aid compatible handset is standard.

## 2.0 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.**

- 2.1 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.
- 2.2 The blue mini-jumpers (located on the corner of the MCRK-2 Printed Circuit Board) must be placed in the "ON" position, as depicted in the diagram on the last page of this manual.  
  
**NOTE:** When servicing the MCRK-2 board, be sure not to contact metal parts, otherwise permanent damage may occur to the board.
- 2.3 Lift the handset (off-hook condition) and wait for dial tone to begin programming.
- 2.4 To clear all user programmable memory, lift the handset and dial #97.
- 2.5 Programming consists of entering the # sign which is the start of a memory location and is followed by a two digit code, up to 92, corresponding to the chosen memory location.

For example: #70 + a number of one to eleven digits.

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.

- 2.6 An individual number may be erased or changed by just entering # plus its location. Example #02 would erase the contents of speed dial location 2. Entering #02 + a number of one to eleven digits would reprogram that number.
- 2.7 Locations #00 - #92 are the repertory dialing memory locations. Log the numbers programmed into Section 3.0 Programming Tables.
- 2.8 When programming is complete, move the blue mini-jumpers back to the "OFF" position and hang up the phone ("on-hook condition).

### 3.0 PROGRAMMING TABLES

<u>LOCATION</u>	<u>DESCRIPTION</u>	<u>LOCATION</u>	<u>DESCRIPTION</u>
#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	_ - _ - _ - _ - _ - _ - _ - _ -

<u>LOCATION</u>	<u>DESCRIPTION</u>	<u>LOCATION</u>	<u>DESCRIPTION</u>
#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 _ - _ - - - -	- _ - - - - -

<u>LOCATION</u>	<u>DESCRIPTION</u>	<u>LOCATION</u>	<u>DESCRIPTION</u>
#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	_ - _ - _ - _ - _ - _ -		



## 4.0 OPERATION

When the phone is connected to the phone line and programmed according to section 2, the phone operates as follows:

- 4.1 When the phone is lifted off hook, dial tone is heard and the keypad is operational. Before and during dialing, the transmitter is turned off.
- 4.2 To dial a programmed number press the two digit code that corresponds to the number logged in section 3. The phone automatically dials the programmed number and the transmitter turns on. The keypad is available for use once speed dial number is accessed.
- 4.3 At the completion of the call the user replaces the handset back “on-hook”.

## 5.0 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.

### \*\*\*\*\*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.**

## 6.0 INSTALLATION NOTES AND ASSEMBLY INSTRUCTIONS

- 6.1** To reduce the possibility of ESD (Electrostatic Discharge) damage to the MCRK-2 Microprocessor Card it is recommended that this telephone be grounded via the housing and/or the yellow-black line cord wires to a suitable ground. These grounds include but are not limited to:
- Service Conduits
  - Service Equipment Enclosures
  - Grounding Conductors
  - Grounding Rods
  - A Metallic Cold Water Pipe having an underground length of at least 10 feet.
  - #24 gauge wire or larger is suitable for this purpose.
- 6.2** When servicing the telephone, be sure the MCRK-2 board does not contact metal parts, otherwise permanent damage may occur to the board.
- 6.3** Using a 301-064 security tool (sold separately), loosen and remove the security screws.
- 6.4** The security tool is for a standard 1/8" button head screw generally used on the framework of telephone booths.
- 6.5** Separate the cover assembly from the housing by lifting the faceplate up and away from the housing.
- 6.6** The housing is designed for mounting on any flat vertical surface. Mounting holes are provided.
- 6.7** Run the inside station wire through the housing and terminate on the RJ11C terminal block on the backplate.
- 6.8** The use of a gas tube station protector is recommended. The station ground should not exceed 50 ohms.
- 6.9** Plug the modular line cord from the cover assembly into the RJ11C terminal block.
- 6.10** Dress the line cable away from the security screws. Install the faceplate into the housing and secure it by tightening the security screws.

## **7.0 TESTING**

- 7.1** Connect the modular line cord to a working telephone line or a DTMF test set.
- 7.2** Lift the handset and dial the two-digit code for each location programmed. Verify that the numbers dial as intended. The telephone must be placed on hook (new dial tone) before testing each number.

## **8.0 TROUBLESHOOTING**

Always visually check the phone for loose or shorted wires, damaged terminals, or damaged parts.

### **1. PROBLEM: NO DIAL TONE AND/OR MCRK-2 CARD DOES NOT FUNCTION.**

#### POSSIBLE CAUSE:

- Line cord
- RJ11C connector
- MCRK-2 card
- Network
- Network cable assembly.
- Hookswitch cable assembly
- Hookswitch assembly
- Microprocessor
- Handset

### **2. PROBLEM: DIAL TONE IS DISTORTED**

#### POSSIBLE CAUSE:

- Network cable assembly
- Hookswitch assembly
- MCRK-2 card
- Network
- Handset

### **3. PROBLEM: TRANSMITTER DOES NOT TURN ON**

#### POSSIBLE CAUSE:

- Handset
- MCRK-2 card
- Network cable assembly
- Network

## **TROUBLESHOOTING CONTINUED**

### **4. PROBLEM: KEYPAD DOES NOT OPERATE PROPERLY**

#### POSSIBLE CAUSE:

Keypad cable assembly  
Keypad  
MCRK-2 card

### **5. PROBLEM: LOOSES MEMORY CONTENTS AFTER EXTENDED PERIODS OF NO USE.**

#### POSSIBLE CAUSE:

Lithium battery

### **6. PROBLEM: PHONE CANNOT BE PROGRAMMED**

#### POSSIBLE CAUSE:

Programming switch  
MCRK-2 card  
Keypad  
Keypad cable assembly

**9.0 SPECIFICATIONS:**

INPUT POWER:	C.O. Line Powered
LOOP CURRENT:	23Ma min. 80Ma max.(48 Volt loop)
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%
PROGRAMMING:	Via DTMF Keypad
TELEPHONE PANEL:	Brushed 14 gauge Stainless Steel
ENCLOSURE	WPP Model Cast Aluminum HOB Model Painted Steel
DIMENSIONS:	<b>WPP</b> Model – 12 5/8” High x 9 1/2” Wide x 8 ” Deep (including door) <b>HOB</b> Model – 11 1/4” High x 7 1/16 Wide x 5” Deep <b>SSP</b> Model - 11 1/4" High x 7 1/6" Wide x 4 1/4" Deep (Handset on hook)
MOUNTING:	WPP Model - 4 Holes spaced 8” x 5 7/8” HOB Model - 4 Holes spaced 8” x 5 7/8” SSP Model - 4 Holes spaced 10 3/4” x 6.5”
WEIGHT:	WPP Model - 17 lbs. HOB Model - 10 lbs. SSP Model - 5 lbs.
MEMORY RETENTION:	Lithium Battery - Long Life
TYPE JACK:	RJ11C
FCC REGISTRATION:	BW88T7-13823-TE-T
UL REGISTRATION:	60F5

**CEECO***Communication Equipment & Engineering Company***PROPRIETARY**

**10.0 PARTS LIST**

<u>QUANTITY</u>	<u>PART NUMBER</u>	<u>DESCRIPTION</u>
1	705-110	Keypad
1	700-008	Keypad cable
1	650-520W	MCRK-2 PC board.
1	301-004-18	Handset with armored cord for WPP-333-F
1	301-004-32	Handset with armored cord For HOB-333-F and SSP-313-F
1	301-009	Network
1	301-581	Tongue & bracket assembly
2	301-588	Hookswitch cradle
1	301-570	Microswitch assembly
1	331-010	Stainless Steel Panel
1	301-051	Modular Jack
1	301-018	30" Modular Cord
1	650-570	Network Cable
4	301-016	Security screw
1	331-005	Weatherproof housing
1	331-HOB	Open Enclosure housing

Accessories:

1	301-064	Security tool
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## **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 its rules. The FCC requires that you be advised of certain requirements involving the use of this telephone.

### **11.2 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.

### **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**  
**519 SW Park Street**  
**Okeechobee, FL 34972**  
**863-357-0798- telephone**  
**863-357-0006- facsimile**  
[info@ceeco.net](mailto:info@ceeco.net)  
[www.ceeco.net](http://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 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.



## **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.

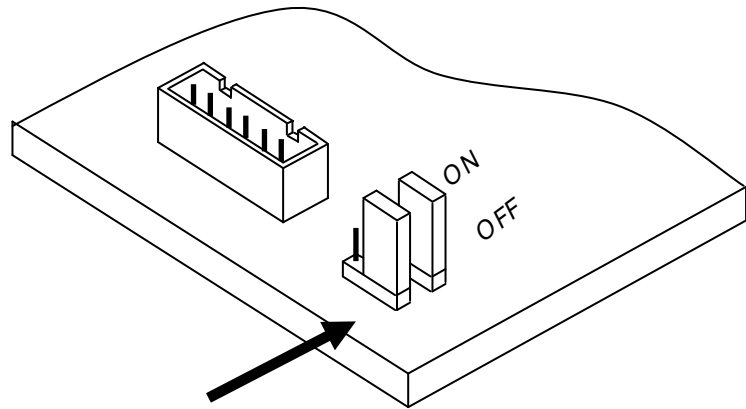
CEECO will repair or replace any unit during this period if found to be defective for reasons other than abuse and improper use or improper installation. It is the buyer's responsibility to return the defective unit to the factory. CEECO will then repair or replace any defective parts and return them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

### **13.2 PRINTED CIRCUIT BOARDS**

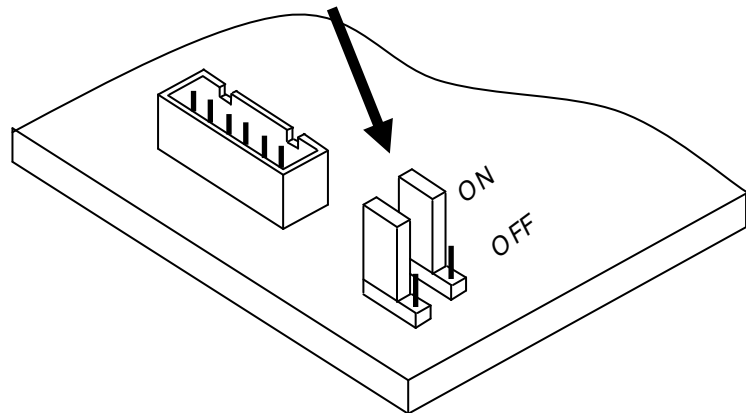
Printed circuit boards should not be repaired in the field. If a unit is found to be faulty, replace it with another unit and return the faulty unit to CEECO for repair. Modifications by any one other than CEECO will void the warranty.

**14.0 DIAGRAM**

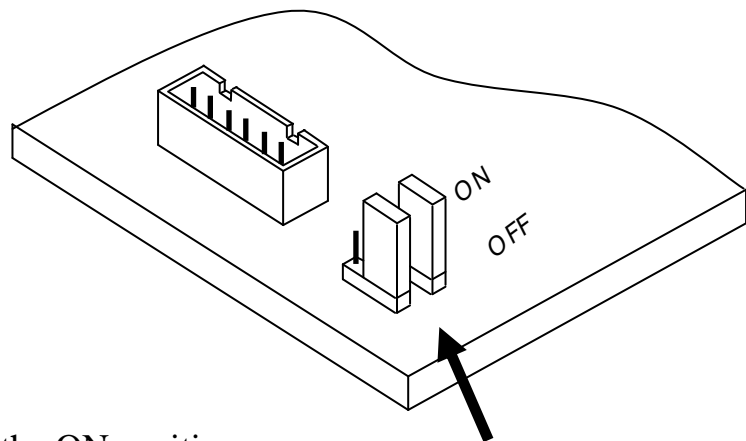
Locate the mini jumpers on the corner of the PCB.



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



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

**NOTE:**

Do not leave the mini jumpers in the ON position, this will decrease battery life.