

# **SERVICE MANUAL**

**FOR**

# **MODEL SSW-520-F**

**HANDS FREE STAINLESS STEEL TELEPHONE**

**EQUIPPED WITH LOW POWER SPEAKER BOARD**



*Serving the Telephone Industry Since 1930*

---

*Communication Equipment  
& Engineering Company*

---

**519 West 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 SSW-520-F STAINLESS STEEL HANDS FREE WALL TELEPHONE.
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 & Engineering Company*

519 West South Park Street  
Okeechobee, FL. 34972

(863) 357-0798 Voice  
(863) 357-0006 Fax

## TABLE OF CONTENTS

<u>SECTION</u>	<u>PAGE</u>
1.0 INTRODUCTION.....	3
2.0 GENERAL.....	3
4.0 OPERATION .....	5
5.0 RECOMMENDED TOOLS AND TEST EQUIPMENT .....	5
6.0 INSTALLATION NOTES AND ASSEMBLY INSTRUCTIONS .....	6
7.0 TESTING.....	6
8.0 SPECIFICATIONS.....	7
9.0 PARTS LIST .....	8
10.0 REPAIR AND RETURN INFORMATION.....	9
11.0 WARRANTY POLICY.....	10

### 1.0 INTRODUCTION

The practices in this manual provide installation and maintenance information for the CEECO Model SSW-520-F Stainless Steel Wall 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  
519 West South Park Street  
Okeechobee, FL. 34972

(863) 357-0798  
(863) 357-0006 (FAX)

### 2.0 GENERAL

The CEECO Hands free telephone is a sturdy, vandal resistant, Stainless Steel Panel Speakerphone. Instead of a hookswitch and handset, the telephone has a Press to start/Press to stop button for initiation and termination of phone calls.

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

### 3.0 PROGRAMMING

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

- 3.1 Remove the telephone from its housing by loosening the security screws with the security tool (sold separately) and removing them.
- 3.2 Locate the blue plastic mini-jumpers on the PC board. They are used to program the time out disconnect feature.
- 3.3 Place the blue mini-jumper at P.C. board location JP3 in the “ON” position, if time out disconnect is to be used.
- 3.4 If the time out disconnect feature is to be used, place the blue mini-jumper at P.C. board location JP2 as follows:

Position 1 (for ONE minute conversation time)

Position 3 (for THREE minute conversation time)

Position 5 (for FIVE minute conversation time)

- 3.5 If the time out disconnect feature is not desired, simply place the blue mini-jumper at P.C. board location JP3 in the “OFF” position.

## 4.0 OPERATION

To make a call, press the "CALL" button located on the front of the phone and wait for dial tone. The RED LED (if provided) will light at this time. When dial tone is received the transmitter is muted and the phone waits for numbers to be dialed.

After the call is complete, press the button again. The RED LED (if provided) goes out and the call is terminated. If user does not press the "CALL" button when he or she is finished using the phone, then the phone will hang up after detecting dial tone or when the timer times out.

## 5.0 RECOMMENDED TOOLS AND TEST EQUIPMENT

Volt/Ohm Meter  
Security Tool, CEECO part number 301-037  
Flat Blade Screw Driver

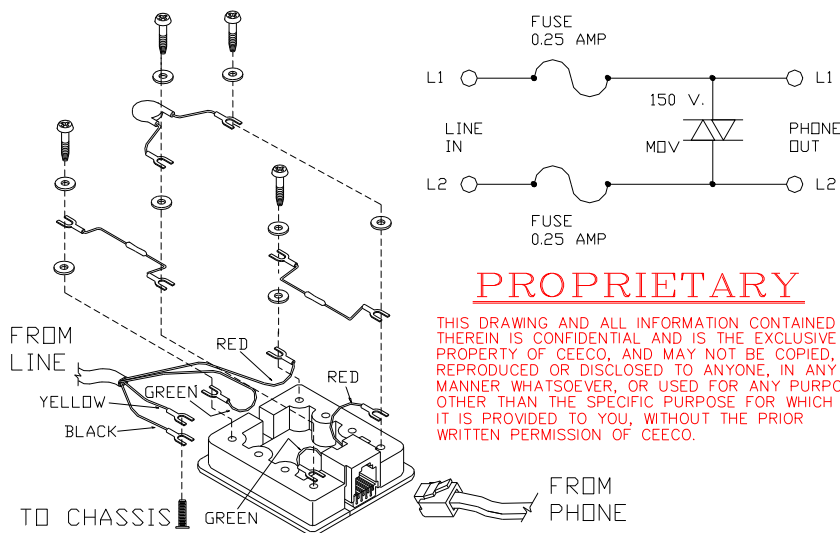
### **\*\*\*\*\*WARNING\*\*\*\*\***

- 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 Using a 301-037 security tool (sold separately), loosen and remove the security screw.
- 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 cover assembly from the back plate assembly by pulling the bottom forward and pushing up.
- 6.4 The back plate assembly is designed to be mounted on any flat vertical surface. Four mounting holes are provided.
- 6.5 Run the inside station wire (tip & ring) through the back plate assembly and terminate onto the terminal block on the back plate, as depicted on the following page.
- 6.6 The use of a gas tube station protector is recommended. The station ground should not exceed 50 ohms.
- 6.7 Plug together the line cord wires (red & green) from the telephone assembly and the backplate, by matching the marked surfaces of the connectors. (refer to diagram on next page). Dress the lines/cables away from the security screw.
- 6.8 Install the cover assembly by placing the two tabs into the two corresponding slots and secure the cover assembly by tightening the security screw.

## 6.9 TELEPHONE LINE WIRING DIAGRAM



**PROPRIETARY**

THIS DRAWING AND ALL INFORMATION CONTAINED THEREIN IS CONFIDENTIAL AND IS THE EXCLUSIVE PROPERTY OF CEECO, AND MAY NOT BE COPIED, REPRODUCED OR DISCLOSED TO ANYONE, IN ANY MANNER WHATSOEVER, OR USED FOR ANY PURPOSE OTHER THAN THE SPECIFIC PURPOSE FOR WHICH IT IS PROVIDED TO YOU, WITHOUT THE PRIOR WRITTEN PERMISSION OF CEECO.

## 7.0 TESTING

- Action: Connect the phone to the line.  
Press the "CALL" button.
- Reaction: Dial tone.  
Red LED lights (if provided).
- Action: Dial a number.
- Reaction: The called party answers.  
A normal speakerphone conversation is allowed.
- Action: Finish the conversation.  
Press the "CALL" button, or wait until time out occurs.
- Reaction: Red LED goes out (if provided).  
The call is terminated.

## 8.0 SPECIFICATIONS

- INPUT POWER : Telephone Line power
- LOOP CURRENT : 27ma. min. 80ma. max.
- IMPEDANCE : 600 ohms
- RING SIGNALING : 90-120VAC/20Hz
- OUTPUT : -4.0 to -6.0dbm
- ENVIRONMENTAL : Temperature 0c to 50c  
Humidity 20%-90% non-condensating
- PROGRAMMING : Via DTMF keypad.
- DIMENSIONS : 5"W X 10"H X 3 1/2"D
- MOUNTING : Vertical surface mount
- MEMORY RETENTION : Non-volatile memory retention
- WEIGHT : Approximately 6 Pounds
- TYPE JACK : RJ11C

## 9.0 PARTS LIST

QUANTITY	PART NUMBER	DESCRIPTION
1	301-018	MODULAR LINE CORD
1	301-054	MODULAR CONNECTOR (RJ11C)
1	SSW-520-F	SERVICE MANUAL
1	301-660-100	CEECO SPEAKER BOARD
1	301-6020-A	PUSH BUTTON SWITCH
1	301-660	SPEAKER
1	401-009	RINGER
1	301-11049	STAINLESS STEEL HOUSING
1	321-017	STAINLESS STEEL BACKPLATE
1	301-9023	1/4-20 X 3/4" SECURITY SCREW

### 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 shipping container.

### **10.2 DIRECT ALL INQUIRES TO:**

**CEECO**  
Repair Department  
519 West South Park Street  
Okeechobee, FL. 34972

(863) 357-0798  
(863) 357-0006 (FAX)

### **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.