

SERVICE MANUAL
FOR
MODEL SSW-321-F
OR
MODEL BLW-321-F
MINI WALL TELEPHONE



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 SSW-321-F OR BLW-321-F |
| 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 W South Park Street
Okeechobee, FL 34972
863-357-0798- telephone
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1.0 INTRODUCTION

The practices in this manual provide installation and maintenance information for Model **SSW 321-F**, which is a Stainless Steel Mini Wall Telephone or Model **BLW-321-F**, which is a Blue Powder Coated Steel Mini Wall 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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2.0 GENERAL DESCRIPTION

The CEECO model SSW 321-F or BLW-321-F is a Mini Wall Telephone equipped with a metal button tone dial. The telephone is designed for special applications where a telephone must be both sturdy and attractive.

3.0 OPERATION

Lift the handset. After dial tone is heard dial your number using the keypad. Normal phone operation follows.

4.0 RECOMMENDED TOOLS AND TEST EQUIPMENT

Volt/Ohm Meter

1/4" Nut Driver

Flat Blade Screw Driver

Security Tool CEECO Part Number 301-037

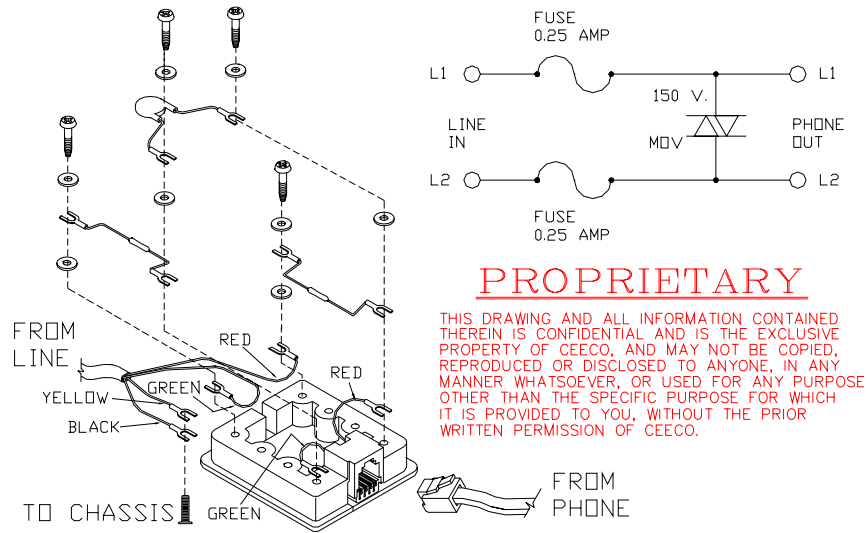
5.0 INSTALLATION NOTES AND ASSEMBLY INSTRUCTIONS

- 5.1 Using a 301-037 security tool (sold separately) loosen and remove the security screw.
- 5.2 The security tool is for a standard 5/32" button head screw generally used on the framework of the phone booths.
- 5.3 Separate the cover assembly from the backplate assembly.
- 5.4 The backplate assembly may be installed on any standard backboard.
- 5.5 Run the inside station wire through the backplate assembly and terminate on the RJ11C modular jack on the backplate, as depicted on the following page. The CEECO-provided modular jack **must** be used, as it contains required over-voltage protection.
- 5.6 The use of a gas tube station protector is recommended. The station ground should not exceed 50 ohms.
- 5.7 Plug the modular line cord from the cover assembly into the RJ11C terminal block.
- 5.8 Dress the line cable away from the security screw and install the cover assembly by inserting the tabs into the slots on top of the backplate.
- 5.9 Secure the cover assembly by tightening the security screw.

*****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.**

5.10 Over-Voltage Protection Wiring Diagram:



6.0 TESTING

- 6.1 Connect the phone to a phone line or a DTMF phone test set.
- 6.2 Lift the handset, dial tone is heard.
- 6.3 Dial a number. (The transmitter is muted while the phone is dialing.)
- 6.4 Normal phone conversation is allowed. Place the handset on hook.
- 6.5 Place a call into the phone.
- 6.6 Normal phone conversation is allowed.

7.0 TROUBLESHOOTING GUIDE

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

PROBLEM: NO DIAL TONE

POSSIBLE CAUSE:

LINE CORD
RJ11C CONNECTOR
NETWORK
HANDSET
DIAL PC BOARD

PROBLEM: DIAL TONE IS DISTORTED

POSSIBLE CAUSE:

NETWORK
HANDSET
DIAL PC BOARD

PROBLEM: TRANSMITTER DOES NOT TURN ON

POSSIBLE CAUSE:

HANDSET
NETWORK
DIAL PC BOARD

PROBLEM: PHONE DOES NOT DIAL

POSSIBLE CAUSE:

DIAL PC BOARD
KEYPAD

PROBLEM: RINGER DOES NOT OPERATE

POSSIBLE CAUSE:

RINGER
NETWORK

8.0 SPECIFICATIONS

| | |
|----------------------------|--|
| INPUT POWER: | C.O. Line Powered |
| LOOP CURRENT: | 23mA min to 80mA max |
| IMPEDANCE: | 600 ohms |
| SIGNALING: | DTMF |
| HEARING AID COMPATIBLE: | Meets EIA standards |
| ENVIRONMENTAL: | Temperature 0°C to 50°C Humidity 20%-90% non-condensating |
| RINGER EQUIVALENCY: | 0.4A |
| TYPE JACK: | RJ11C |
| TELEPHONE COVER: | Brushed 16 ga. Stainless Steel |
| DIMENSIONS: | 5" Wide x 10 3/4" High x 5 1/2" deep (Handset on hook) |
| MOUNTING: | Vertical surface mount |
| WEIGHT: | 6 lbs. |
| FCC REGISTRATION: | BW-88T7-13717-TE-T |
| UL LISTED NO.: | 6OF5 |

9.0 PARTS LIST

| <u>QUANTITY</u> | <u>PART NUMBER</u> | <u>DESCRIPTION</u> |
|-----------------|--------------------|---|
| 1 | 321-008 | Blue Powder Coat Mini Housing or |
| 1 | 321-020 | Stainless Steel Mini Housing |
| 1 | 735-100 | Model 730 Metal Button Tone Dial |
| 1 | 301-004-29 | Handset with Armored Cord |
| 1 | 401-009 | Ringer |
| 1 | 301-009 | Network |
| 1 | 301-581 | Tongue and Bracket Assembly |
| 1 | 301-588 | Hookswitch Cradle |
| 2 | 301-570 | Microswitch Assembly |
| 1 | 301-018 | Modular Cord |
| 1 | 321-015 | Stainless Steel Backplate |
| 1 | 321-016 | 1/4 - 20 x 3/4 Security Screw |
| 1 | 308-015 | Swivel |
| 1 | 301-052 | Grommet |
| 1 | 301-054 | Modular Jack |

ACCESSORIES:

| | | |
|---|---------|---------------|
| 1 | 301-037 | Security Tool |
|---|---------|---------------|

OPTIONS:

| | |
|----------------------|-----------------------------|
| 301-106-29 or | Handset with Armored Cable |
| 301-106-18 (Prison) | with Internal Steel Lanyard |

10.0 FCC NOTICE

10.1 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.

10.2 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.

10.3 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 7.00.

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

11.0 REPAIR AND RETURN INFORMATION

11.1 WARRANTY REPAIR

Any device returned requiring warranty service, repair or credit must be accompanied with a "Return Material Authorization" (RMA) Form. It must include: RMA Number, return shipping instructions., original purchase order number, serial number and special marking instructions. A tag with the trouble observed must be attached to the defective unit. This information must be inside the shipping container.

11.2 DIRECT ALL INQUIRES TO:

CEECO

Repair Department

863-357-0798- telephone

863-357-0006- facsimile

info@ceeco.net

www.ceeco.net

11.3 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.

11.4 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. Items returned for credit must be returned in their original shipping container.

12.0 WARRANTY POLICY

12.1 GENERAL

CEECO guarantees its products to be free from 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 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.

12.2 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.