

# **SERVICE MANUAL**

**FOR**

## **MODEL MHD-341-Xr1**

### **MAGNETIC HOOKSWITCH DESKTOP TELEPHONE**

**EQUIPPED WITH VOLUME CONTROL, BACKGROUND NOISE  
ELIMINATION, XFD PRINTED CIRCUIT, AND RECEIVER-  
OPERATED MAGNETIC HOOKSWITCH**



**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 MHD-341-Xr1 |
| 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

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## 1.0 INTRODUCTION

The practices in this manual provide installation and maintenance information for the CEECO Model MHD-341-Xr1 Magnetic Hookswitch Desktop 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 Model MHD-341-Xr1 Magnetic Hookswitch Desktop Telephone is equipped with a receiver actuated, magnetically operated hookswitch; built in volume control; background noise elimination and other programmable features. The MHD-341-XR1 is designed for special applications where a telephone must be sturdy and attractive. On the face of the telephone is the volume control button bearing a universal volume symbol. During a telephone call, each press of the button will produce an incremental raise in volume. On the fourth press, it will reset to the starting point and also when it is hung up. The overall maximum gain is 18-20dB. The heavy duty armored cord handset is hearing aide compatible. The telephone is designed and intended for "Ring-Down" and other direct connect applications.

## 3.0 PROGRAMMING

**This telephone comes from CEECO already programmed for operation.**

Performing the programming described hereafter is only necessary to change or activate desired features. Short of that, the phone is ready to install and use.

Connect the CEECO XFD Series Telephone to the Telephone Line provided by your local Telephone Company or to analog type PABX Station.

Using another Telephone (Different Telephone Line, or Cell Phone) equipped with a Touch Tone Keypad, call the Telephone equipped with the CEECO XFD.

## ***PROGRAMMING CONT'D...***

After the Telephone equipped with the CEECO XFD rings 4 times, answer the Telephone.

From the remote Keypad, press the # key, followed by the five (5) digit Pass Code (Factory Default: 23326\*). Two (2) beeps will be heard indicating a valid Pass Code entry, Five (5) beeps will only be heard when errors occur.

Review the programming feature commands below and make entries according to the particular requirements.

| <b><i>3.1 Programming Feature commands:</i></b> | <b>Keys to enter:</b>       |
|---|-----------------------------|
| • Clear Memory                                  | #97*                        |
| • Transmitter Muted Off Hook                    | #560* (Default)             |
| • Transmitter Not Muted Off Hook                | #561*                       |
| • No background Noise Reduction                 | #590* (Default)             |
| • Background Noise Reduction                    | #591*                       |
| • Change Pass Code                              | #31x* (x = 5 Digits; 0 – 9) |

\* When finished, simply hang up and the phone is ready for operation as programmed.

## **4.0 TESTING**

Place a call into the phone. Upon lifting the handset, a normal telephone conversation is able to take place, including adjusting the receive volume. Return handset to magnetic hookswitch.

Lift handset. Call should be automatically connected as configured with “Ring-Down” or other external call equipment. A normal telephone conversation is able to take place including adjusting the receive volume. Return handset to magnetic hookswitch.

## 5.0 INSTALLATION NOTES AND ASSEMBLY INSTRUCTIONS

- 5.1 Using a 301-037 security tool (sold separately), loosen (do not remove) the locking screw on the rear of the phone. The security tool is for a standard 5/32" button head screw, generally used on the framework of the phone booths.
- 5.2 Separate the cover assembly from the backplate assembly by pulling the bottom forward and lifting up. The backplate assembly is designed to mount on any flat surface.
- 5.3 Run the inside station wire through the backplate assembly and terminate on to the RJ11C terminal block on the backplate.
- 5.4 The use of a gas tube station protector is recommended. The station ground should not exceed 50 ohms.
- 5.5 Plug the modular line cord from the cover assembly into the RJ11C terminal block.
- 5.6 Dress the line cable away from the locking screw and install the cover assembly by placing the two tabs into the two corresponding slots and pushing forward until the housing slips into place for the security screw.
- 5.7 Secure the cover assembly by tightening the security screw on the rear of the case.

**\*\*\*\*\*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 SPECIFICATIONS

|                               |   |
|-------------------------------|---|
| INPUT POWER:                  | Telephone Line Powered.   |
| LOOP CURRENT:                 | 20mA MIN. TO 80mA MAX.  |
| IMPEDANCE:                    | 600 Ohms.   |
| SIGNALING:                    | Analogue Device   |
| HEARING AID<br>COMPATIBILITY: | Meets EIA Standards   |
| FCC REGISTRATION:             | BW88T7-13717-TE-T   |
| RINGER EQUIVALENCY:           | 0.4A  |
| TYPE JACK:                    | RJ11C   |
| ENVIRONMENTAL:                | Temperature 0° C to 50° C<br>Humidity 20%-90% non-condensating. |
| TELEPHONE COVER:              | 14 Gauge Stainless Steel.                                       |
| WEIGHT:                       | Approximately 5 lb.   |

**7.0 PARTS LIST**

| <b><u>PART NUMBER</u></b> | <b><u>DESCRIPTION</u></b>                            |
|---------------------------|--|
| 11113                     | Stainless Steel Housing with backplate.              |
| XFD                       | Printed Circuit Board                                |
| 6017                      | Reed Switch.   |
| 14010                     | Modular Cord.  |
| 9023                      | 1/4" -20-3/4" Security Screw.                        |
| 9005                      | Grommet.   |
| 14014                     | Modular Jack.  |
| 9020                      | Security Tool.                                       |
| 8195                      | 32" WHITE Armored Cord Handset<br>with Switch Plate. |
|                           | Or:  |
| 8204                      | 32" WHITE Armored Cord Handset<br>with Switch Plate. |
| 14018                     | Magnetic Assembly.                                   |
| 12017                     | Ringer.  |



## **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 of its rules. The FCC requires that you be advised of certain requirements involving the use of this telephone.

### **9.2 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.

### **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 (that is, your phone number), the telephone's FCC registration number and ringer equivalence number. These numbers are listed in section 7.0

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  
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.