

SERVICE MANUAL

FOR

MODEL MHW-341-X

MAGNETIC HOOKSWITCH

WALL TELEPHONE

EQUIPPED FOR DIRECT RING-DOWN OPERATION



Serving the Telephone Industry Since 1930

**Communication Equipment
& Engineering Company**

**1580 NW 65th Avenue
Plantation, FL 33313**

Voice: 954-587-5430

Fax: 954-587-5440

IMPORTANT INFORMATION FOR CUSTOMER

Please fill in before you continue.

The following information is necessary when calling CEECO for assistance.

MODEL NUMBER	MODEL MHW-341-X
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

1580 NW 65th Avenue
Plantation, FL 33313

(954) 587-5430 Voice
(954) 587-5440 Fax

TABLE OF CONTENTS

<u>SECTION</u>	<u>PAGE</u>
1.0 INTRODUCTION.....	4
2.0 GENERAL.....	4
3.0 RECOMMENDED TOOLS AND TEST EQUIPMENT.....	4
4.0 INSTALLATION NOTES AND ASSEMBLY INSTRUCTIONS..	5
5.0 TESTING.....	6
6.0 SPECIFICATIONS.....	7
7.0 PARTS LIST.....	8
8.0 FCC NOTICE.....	9
9.0 REPAIR AND RETURN INFORMATION.....	10
10.0 WARRANTY POLICY.....	11

1.0 INTRODUCTION

The practices in this manual provide installation and maintenance information for the CEECO Model MHW-341-X Magnetic Hookswitch 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
1580 NW 65th Avenue
Plantation, FL 33313

(954) 587-5430
(954) 587-5440 FAX

2.0 GENERAL

The CEECO Model MHW-341-X Magnetic Hookswitch Wall Style Telephone is equipped with a magnetically operated hookswitch. The MHW-341-X is designed for special applications where a telephone must be sturdy and attractive, and also provide ring-down operation for automatic dialing. It is equipped to interface with a Central Office type ring down lines or independent ring-down switches. When the handset is lifted, the external ring-down equipment detects the telephone and automatic dialing will take place as per the external equipment programming. The telephone is designed for this direct or point-to-point dialing, but may receive incoming calls if so permitted by the external equipment.

3.0 RECOMMENDED TOOLS AND TEST EQUIPMENT

Volt/Ohm Meter
1/4" Nut Driver
Flat Blade Screw Driver
Security Tool, CEECO Part Number 301-037 (sold separately)

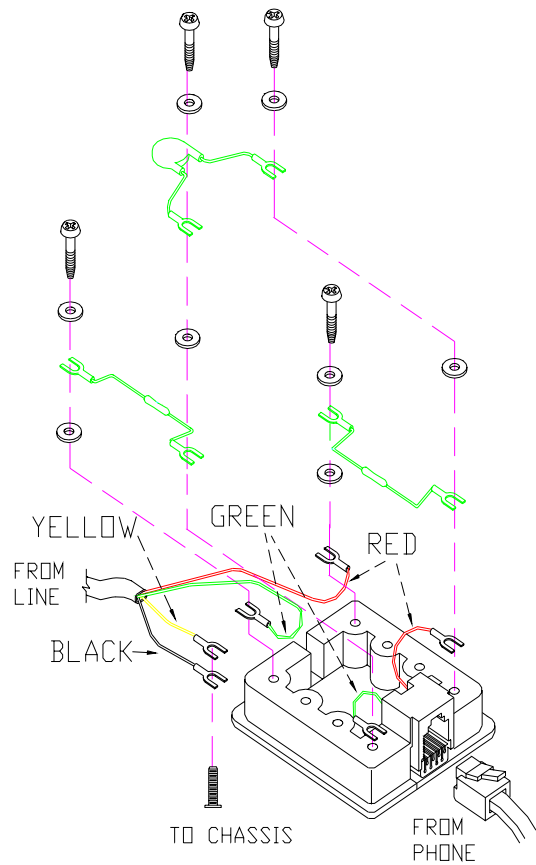
4.0 INSTALLATION NOTES AND ASSEMBLY INSTRUCTIONS

- 4.1 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.
- 4.2 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 vertical surface.
- 4.3 Run the inside station wire into the enclosure and terminate on the RJ11C terminal block inside. As depicted on the following page. The CEECO provided terminal block (jack) **must** be used, as it contains required over-voltage protection circuitry.
- 4.4 The use of a gas tube station protector is recommended. The station ground should not exceed 50 ohms.
- 4.5 Plug the modular line cord from the cover assembly into the RJ11C terminal block.
- 4.6 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.
- 4.7 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.**

4.8 OVER-VOLTAGE PROTECTION DIAGRAM



5.0 TESTING

- 5.1 With the phone connected to the ring-down line or circuit, lift the handset. Dial tone should be heard and the pre-programmed number (as per the external equipment) should automatically dial out.
- 5.2 Normal phone operation should follow when the call is answered.
- 5.3 When the call is complete, hang up the phone.
- 5.4 Place a call to the phone (if permitted by the external equipment).
- 5.5 The phone should ring indicating the incoming call. Upon answering, normal telephone operation should follow.
- 5.6 Hang up the phone. It is ready for use.

6.0 SPECIFICATIONS

INPUT POWER:	C.O. Line Powered
LOOP CURRENT:	23mA min to 80mA max
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% non-condensating
PROGRAMMING:	N/A
TELEPHONE COVER:	Brushed 16 ga. Stainless Steel
MEMORY RETENTION:	N/A
WEIGHT:	Approximately 5 lb.
RINGER EQUIVALENCY:	0.4A
FCC REGISTRATION:	BW-88T7-13716-TE-T
UL LISTED NO.:	60F5
TYPE JACK:	RJ11C

7.0 PARTS LIST

<u>PART NUMBER</u>	<u>DESCRIPTION</u>
11013	Stainless Steel Housing with backplate.
12027	Network.
6017	Reed Switch.
14010	Modular Cord.
9023	1/4" -20-3/4" Security Screw.
9005	Grommet.
14014	Modular Jack.
9020	Security Tool.
8093	29" Armored Cord Magnetic Handset
14018	Magnetic Assembly.
12017	Ringer.

8.0 FCC NOTICE

8.1 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.

8.2 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.

8.3 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.

9.0 REPAIR AND RETURN INFORMATION

9.1 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.

9.2 DIRECT ALL INQUIRES TO:

CEECO

Repair Department
1580 NW 65th Avenue
Plantation, FL. 33313
(305) 587-5430
(305) 587-5440 (FAX)

9.3 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.

9.4 RETURN FOR CREDIT:

Material may be returned for credit only with prior approval. Material authorized for return is subject to a 15% restocking charge based on the manufacturer's list price. Return Material Authorization must be requested no later than 60 days after original shipment.

10.0 WARRANTY POLICY

10.1 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.

10.2 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.

