SERVICE MANUAL

FOR

MODEL WPP-530-D

HANDS FREE EMERGENCY WEATHERPROOF TELEPHONE

OR

MODEL SSP-510- D

HANDS FREE STAINLESS STEEL PANEL TELEPHONE

EQUIPPED WITH LOW-POWER SPEAKER BOARD

CEECO

Serving the Telephone Industry Since 1930

Communication Equipment	**519 W South Park Street**
& Engineering Company	**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 WPP-530-D OR SSP-510-D, EQUIPPED WITH LOW-POWER SPEAKER BOARD AND ATD-11 AUTO-DIAL PCB.
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 and Engineering Company

519 W South Park Street
Okeechobee, FL 34972
863-357-0798- telephone
863-357-0006- facsimile
info@ceeco.net
www.ceeco.net

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<u>**SECTION**</u>   <u>**PAGE**</u>

1.0   INTRODUCTION

The practices in this manual provide installation and maintenance information for the CEECO Model WPP-530-D hands free weatherproof Telephone or the SSP-510-D hands free stainless steel panel 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 W South Park Street
> Okeechobee, FL 34972
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2.0   GENERAL

2.1   The CEECO Model WPP-530-D or SSP-510-D Hands Free Telephone is a sturdy, vandal resistant, stainless steel panel speakerphone. Instead of a hookswitch and handset, the WPP-530-D or SSP-510-D has a Press to start/Press to stop button for the initiation and termination of phone calls. This Press to start/Press to stop Auto Dial button is provided for one button dialing of a preprogrammed number of up to 11 digits. The microphone is muted during the dialing sequence to prevent the use of hand-held dialers. Fully line powered, no battery backup required for memory retention.

2.2   Programming is accomplished via DTMF keypad.

3.0   PROGRAMMING

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

3.1   This phone has two "programmable features", both of which are
controlled by the manipulation of mini-jumpers on the PC boards. The
phone can be programmed to automatically dial a number of up to eleven
digits in length. The phone can also be programmed to automatically
disconnect a phone call after the elapse of a selected period of time (1, 3 or
5 minutes). A pair of small needle nose pliers may be helpful with
moving the mini-jumpers, however; you must be very careful not to touch
the circuit boards with the pliers, as this may cause damage.

3.2   PROGRAMMING THE NUMBER TO AUTODIAL (ATD-11):

Please refer to the diagram on page 7 for programming the ATD-11.

If the number to be programmed is a (1+) or long-distance call, locate the
plastic mini-jumper at the "J1" position location of the ATD11 printed
circuit board. The ATD11 circuit board has a smaller board mounted to it,
which has several rows and columns of copper contacts/pins on it. The
"J1" position you are looking for is located just below the bottom right
hand corner of that smaller piggyback board. The "J1" position has three
copper contacts/pins, with a plastic mini-jumper, and is readily identified
by the "+1" that appears on the board in small white print just to its left.
By moving the plastic mini-jumper so that it bridges the middle copper pin
and the far left or "+1" pin, you will cause the digit "1" to automatically
dial out prior to any other programmed number. If your desired number is
local or does not need a preceding one, then move the mini-jumper to
bridge the middle copper pin and the far right pin. You will observe a "P"
in small white print on the circuit board just right of this right hand pin.

Next, locate the plastic mini-jumper at the "J3" position of the circuit
board, which is just below the "J1" position. It could also be considered
the second plastic mini-jumper below the bottom right hand corner of the
smaller piggyback board. Just left of this "J3" position, in small white
print, appears "11". Be sure this mini-jumper is placed closest to the "11",
bridging the middle and far left copper pins. The "J3" mini-jumper should
always be in this position, regardless of the number you are programming.

PROGRAMMING CONTINUED…

Now let's program the number to be automatically dialed. Looking at the piggyback circuit board containing several rows and columns of copper pins, you will see ten plastic mini-jumpers. The rows are labeled 1 thru 0 on the left side of the circuit board. The columns are labeled A thru K across the top of the circuit board and the columns of copper pins are in pairs. Each pair of copper pins represents a number to be dialed. For example, let's assume that you want to program the phone to dial 1-954-587-5430. Place the plastic mini-jumper under column "A" across the two copper pins that align with row "9". Place the mini-jumper under column "B" so that it bridges the pair of copper pins in row "5". Place the mini-jumper under column "C" across the pair of copper pins in row "4" and so on, until the entire number is programmed. Each column represents a digit, so do not skip any. This example happens to include a long distance number, so you would move the "J1" jumper to the "+1" position. If your desired number was short, like 911 for example, the programming would be slightly different. In a case such as that, you would place the jumper under column "A" in the "9" position and the jumpers under columns "B" and "C" in the "1" position. You would then remove the seven remaining plastic mini-jumpers, so that no erroneous digits dial out.

3.4   Be sure each mini-jumper is properly positioned to make good contact and dial the intended number. Do not discard unused mini-jumpers, as you may need them in the future. It may be wise to tape them to the inside of the phone somewhere out of harms way.

3.5   There is one last mini-jumper location that has not been addressed yet. This jumper is positioned at the time of manufacturing to accommodate most telephone environments. If your telephone line delivers dial tone to your phone in one second or less, then you should proceed to section 3.6. If you happen to be in a long loop environment, which takes more than one second to deliver dial tone on the line, then you will need to locate the plastic mini-jumper located at the "J2" position of the ATD11 board. On this particular model phone, the "J2" position is hidden under the low-power speaker board. You will first have to remove the screws, which secure the low-power speaker board, and gently raise the board enough to locate the mini-jumper. You must be very careful to avoid touching the circuit boards with metal objects, as this may cause damage. The "J2" position can be found approximately 1.5" – 1.75" directly below the "J1" and "J3" positions and is somewhat by itself. Position the "J2" green, plastic mini-jumper, so that it bridges the middle and far right copper pins. A "3" appears in small white print just right of this position. Placing the jumper there will cause the phone to delay 3 to 4 seconds

PROGRAMMING CONTINUED…

before dialing. This should allow the phone to accommodate those extra long loop situations in terms of time to receive dial tone. When you have completed this, carefully replace the low-power speaker board and secure it with the screws.

3.6   PROGRAMMING DIAGRAM

J1 JUMPER
SET TO "+1" FOR 1+ CALLS
SET TO "B" FOR LOCAL CALLS

J3 JUMPER
SET TO "8" FOR LOCAL CALLS

SET TO "11" FOR CALLS
REQUIRING AREA CODE

A–K MATRIX BOARD
FOR SETTING AUTO–
DIAL NUMBER

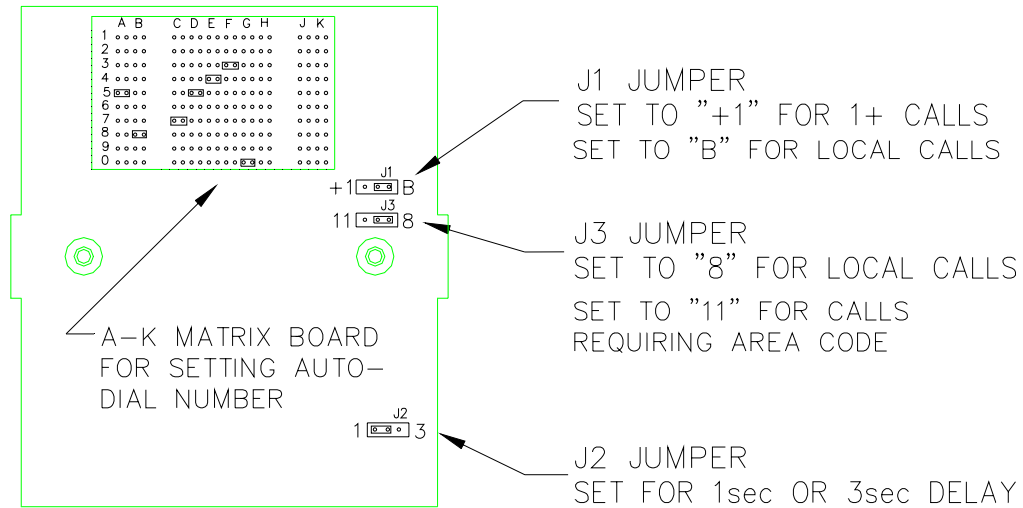J2 JUMPER
SET FOR 1sec OR 3sec DELAY

ILLUSTRATION DEPICTS SETTINGS WHICH WILL AUTO DIAL THE LOCAL NUMBER 587-5430 WITH A NORMAL 1 SEC. DIAL TONE DELAY.

NOTE: UNUSED JUMPERS MUST BE REMOVED FROM BOARD.
       RETAIN THEM FOR FUTURE USE.

ATD-11 PCB

AUTOMATIC TONE DIALER

**3.6** PROGRAMMING THE TIME OUT DISCONNECT FEATURE:

If you desire the phone to automatically disconnect the call after a specified period of time, we will discuss that now. Otherwise proceed to section 3.7.

The low power speaker board, which is the larger printed circuit board, has two plastic mini-jumpers on it, just like the ones you have been manipulating thus far. These mini-jumpers are used to program the Time Out Disconnect feature. Locate the plastic mini-jumper that has "JP3" written above it in small white print on the PC board. Below it, in small white print, appear the words "ON" and "OFF". Place the mini-jumper across the middle and far-left copper pins. This is the "ON" position, which activates the Time Out Disconnect feature. When this feature is not used, the jumper should be in the "OFF" position (jumper bridges the middle and far right copper pins).

When utilizing the Time Out Disconnect feature, you select a 1, 3, or 5 minute timed disconnect. Locate the plastic mini-jumper on the same circuit board; above which appears "JP2" in small white print. Below it are "5", "3" and "1" also in small white print. Place the jumper so that it bridges the two copper pins corresponding with your selection of 1, 3, or 5 minutes.

3.7 Programming is now complete and the telephone is ready for testing/operation.

3.8 Programming Diagram for Low Power Speaker Board:
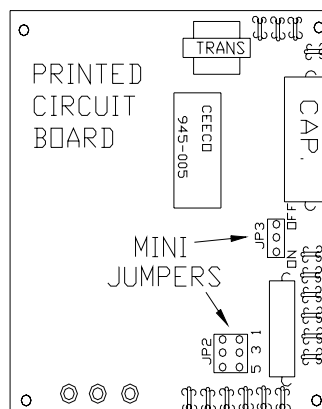
4.0   TESTING/OPERATION

Action: Connect the phone to a working telephone line or DTMF test set.
                 Press the "CALL" button.
Reaction: Dial tone. Red LED illuminates (If equipped)
                 The preprogrammed number is automatically dialed.

Action: The called party answers.
Reaction: A normal speakerphone conversation is allowed.

Action: Finish the conversation and press the "CALL" button to hang up.
Reaction: Red LED goes out. (If equipped) and the call is terminated. If you
do not hang up the phone it will automatically disconnect if you programmed it as
such.

5.0   RECOMMENDED TOOLS AND TEST EQUIPMENT

Security Tool, CEECO part number 301-064

Insulated Needle Nose Pliers
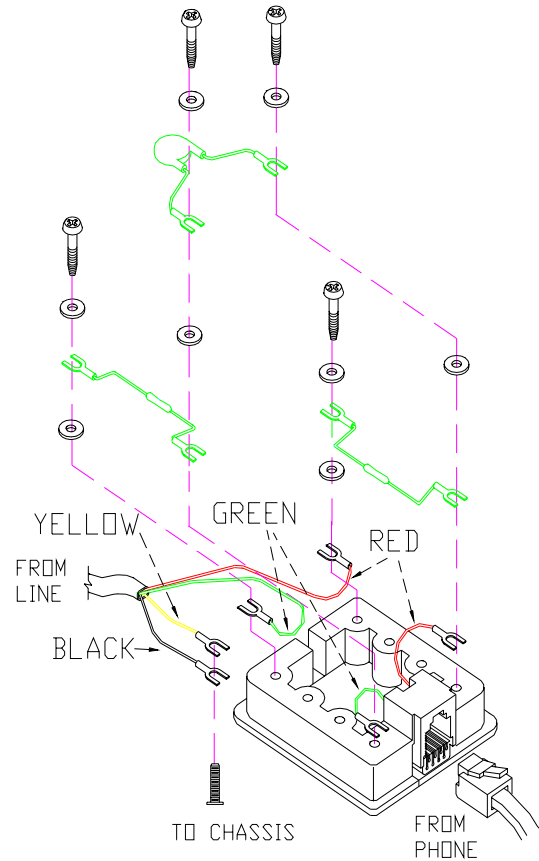
Flat Blade/Phillips Head Screwdriver

6.0 INSTALLATION NOTES AND ASSEMBLY INSTRUCTIONS

6.1 Using a 301-064 security tool (sold separately), loosen and remove the security screws.

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 faceplate assembly from the weatherproof housing by pulling the faceplate forward.

6.4 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.

6.5 The use of a gas tube station protector is recommended. The station ground should not exceed 50 ohms.

6.6 Plug the modular line cord from the faceplate assembly into the RJ11C terminal block.

6.7 Dress the telephone line cord and AC cable away from the security screws and seat the faceplate into the weatherproof housing.

6.8 Secure the cover assembly by tightening the security screws.

<u>WARNING</u>

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.**

6.9   OVER-VOLTAGE PROTECTION DIAGRAM

7.0   SPECIFICATIONS

1.	INPUT POWER	C.O. Line powered
2.	LOOP CURRENT	28ma. min. 80ma. max.
3.	IMPEDANCE	600 ohms
4.	SIGNALING	DTMF, 70ms tone, 50ms spacing
5.	OUTPUT	-4.0 to -6.0dbm
6.	ENVIRONMENTAL	Temperature 0c to 50c Humidity 20%-90% non condensating
7.	PROGRAMMING	Via DTMF keypad.
8.	DIMENSIONS: Stainless Steel Panel (SSP)	7 1/6∀ wide x 11 1/4∀ high x 4 1/4∀ deep (handset on hook).
9.	PANEL MOUNTING (SSP)	Vertical Surface Mount
10.	WEIGHT (SSP)	Approximately 4lb.
11.	DIMENSIONS: Weatherproof Housing (WPP)	9 1/2" wide x 12 5/8" high x 8" deep (including door).
12.	WEATHERPROOF HOUSING (WPP)	Cast aluminum
13.	HOUSING MOUNTING (WPP)	4 holes spaced 8" x 5 7/8" x 13/32"
14.	HOUSING WEIGHT (WPP)	Approximately 12 pounds
15.	MEMORY RETENTION	Non-volatile memory retention
16.	FCC REGISTRATION NO.	BW-88T7-13716-TE-N
17.	TYPE JACK	RJ11C
18.	U.L. LISTED NO.	6OF5

8.0   PARTS LIST:

QUANTITY	PART NUMBER	DESCRIPTION
4	331-006	OUTER COVER SECURITY SCREW
1	301-018	MODULAR LINE CORD
1	301-054	MODULAR CONNECTOR (RJ11C)
1	660-100	CEECO LPSPKR BOARD
1	12017	RINGER
1	6020-B	MOMENTARY PANEL SWITCH
1	ATD-11	AUTO-DIAL PCB
1	14123	SPEAKER
1	530-D OR 510-D	FACE PLATE
1	331-005	WEATHERPROOF HOUSING
ACCESSORIES :		
1	301-064	SECURITY TOOL

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
863-357-0798- telephone
863-357-0006- facsimile
info@ceeco.net
www.ceeco.net

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.

10.5   EXCHANGE POLICY

If a replacement unit is required it will be shipped in the most expedient manner consistent with the urgency of the situation. Please contact "Customer Service" for instructions regarding exchange of modules or printed circuit boards.

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.