

MODEL

WPP-531-FD-ADA-STROBE

HANDS FREE WEATHERPROOF TELEPHONE

EQUIPPED WITH SPK1.07 UNVL FIRMWARE

SERVICE MANUAL



COMMUNICATION EQUIPMENT AND ENGINEERING COMPANY
519 W South Park Street Okeechobee, FL 34972
863-357-0798
Serving The Telephone Industry Since 1930.

IMPORTANT INFORMATION FOR CUSTOMER

Please fill in before you continue.

The following information is necessary when calling CEECO for assistance.

MODEL NUMBER	MODEL WPP-531-FD-ADA-STROBE EQUIPPED WITH SPK1.07 FIRMWARE
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

CEECO
Communication Equipment and Engineering Company
PROPRIETARY

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1.0 INTRODUCTION

The practices in this manual provide installation and maintenance information for the CEECO Model WPP 531-FD-ADA-STROBE Telephone with SPK1.07 Universal firmware.

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

- 2.1 The CEECO hands free telephone is a sturdy, vandal resistant, Stainless Steel Panel Speakerphone, with optional ADA feature (RED/GREEN LED). Instead of a hookswitch and handset, the telephone has a Press to start/Press to stop button for initiation and termination of phone calls. The Emergency Auto Dial button is also provided for one button dialing of a preprogrammed number of up to 11 digits. Manual volume control is also provided inside the telephone.
- 2.2 When the Emergency Auto Dial Button is pushed, the strobe light is activated. It remains activated until the Press to stop button is pressed or the far end hangs up (wink back received).
- NOTE:** In some cases, the PBX does not automatically provide the wink back. Some of these PBXs can be programmed to do so. In such cases, it would be necessary to contact the PBX manufacturer.
- 2.3 The microphone is muted during periods dial tone to deter the use of hand held dialers.
- 2.4 Incoming calls may be allowed or blocked depending on the programming.
- 2.5 Programming is accomplished via the DTMF keypad.

3.0 PROGRAMMING

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

- 3.1 Connect the phone to a working telephone line or a DTMF test set before programming.
- 3.2 Move the mini-jumpers (located on the CEECO-SPK Printed Circuit Board) to the "ON" position, as depicted on the last page of this manual.
- 3.3 Press the CALL button and wait for dial tone before programming any digits.
- 3.4 Each location is accessed by dialing the "#" sign and a two digit code. The valid program locations are: #00, #01, #02, #18, #30-#69 (speed dial locations), and #70-#89 (allowed call locations). The previous contents of the location are automatically erased when the location code is accessed.

NOTE: Once the "#" (pound) key has been entered you may get an operator recording or a fast busy, please disregard and continue programming.

- 3.5 To **clear all** user programmable memory, with the phone on hook (no dial tone) and the mini-jumpers in the "ON" position, press the CALL button located on the front of the phone and dial **#97#18#**.
- 3.6 Location "00" is the phone option location. It is comprised of ten digits, all of which must be filled to render the phone functional. By entering 0 or 1 into each of the 10 digits (some digit locations allow a choice of 0-9 to be entered), the phone is customized to a particular installation.

PROGRAMMING CONTINUED...**LOCATION #00: (OPTION TABLE)**#00 _ _ _ _ 0 _ 1 0 _ _**Digit 1:**

- 0 Call restrictions are in effect. (Default)
- 1 No call restrictions.

Digit 2:

- 0 No incoming calls allowed. (Default)
- 1 Incoming calls allowed.

Digit 3:

- 0 No Conversation Time-Out. (Default) For ***Emergency*** Button
- 1-9 Minutes Conversation Time-Out

Digit 4:

- 0 No Conversation Time-Out. (Default) For ***Call*** Button
- 1-9 Minutes Conversation Time-Out

Digit 5:

- 0 **Always 0 for this model.** (Default)

Digit 6:

- 0 No ADA Feature (Default) **Always 0 for this model.**
- 9 Activate ADA Feature

Digit 7:

- 1 **Always 1 for this model**

Digit 8:

- 0 Do not dial PBX access number #18 (Default)
- 1 Dial PBX access number stored in Location #18 For ***Call*** Button

Digit 9:

- 0 Do not dial PBX access number #02. (Default)
- 1 Dial PBX number stored in location #02. For ***Emergency*** Button

Digit 10:

- 0 No Wink Detect
- 1-9 Length of the Wink (1 = 50ms incremental to 450ms – entering a 5 is recommended)

PROGRAMMING CONTINUED...

EXAMPLE:

DIAL #00 0152001015

Phone will be set as follows:

- DIGIT 1 .. CALL RESTRICTIONS IN EFFECT
- DIGIT 2 .. INCOMING CALLS ALLOWED
- DIGIT 3 .. 5 MINUTE TIME OUT FOR EMERGENCY CALLS
- DIGIT 4 .. 2 MINUTE TIME OUT FOR BLACK CALL BUTTON
- DIGIT 5 .. ALWAYS 0
- DIGIT 6 .. ALWAYS 0
- DIGIT 7 .. ALWAYS 1
- DIGIT 8 .. DO NOT DIAL PBX NUMBER STORED IN LOCATION

#18

- DIGIT 9 .. DIAL THE PBX ACCESS NUMBER FIRST FROM LOCATION #02 (SHORT PAUSE THEN DIAL EMERGENCY NUMBER).
- DIGIT 10 . 250ms WINK

LOCATION #01: (EMERGENCY NUMBER)

#01 _ _ _ _ _

This location holds the Emergency number to be dialed. The number can be in the range of 1 to 11 digits. Whenever a caller pushes the "EMER" (RED) button the number in location #01 will be dialed and the blue strobe light will be activated. If caller wants to hang up then he or she **must** push the "CALL " button. The automatic time out disconnect features will begin to work after the number has been dialed. The call will also disconnect when the called end hangs up, provided the PBX gives the proper wink back on the line. The blue strobe light will deactivate when the "CALL" button is pressed or the far end hangs up and the wink back is received.

LOCATION #02: (PBX - EMERGENCY NUMBER)

#02 _ _ _ _ _

This location holds the PBX number to be dialed for "Emergency" Calls. The number can be from 1 to 11 digits. Any number stored in location #02 will automatically dial first, followed by a pause, then the phone will automatically the number stored in location #01.

PROGRAMMING CONTINUED...

LOCATION #18: (BLACK CALL BUTTON)

#18 _ _ _ _ _

This location holds the number to be dialed for the “Call” button. The number can be from 1 to 11 digits. Any number stored in Location #18 will automatically dial first when the black “Call” button is pressed.

LOCATION #30 - #69: (SPEED DIAL TABLE)

If Speed Dialing is desired, enter the Speed Dial numbers in any of these 40 locations. The numbers can range from 1 to 11 digits.

EXAMPLE:

Enter #3018005551212 in the programming sequence. When in normal operating mode, the user dials #30 and the phone will Speed Dial 1 800 555 1212.

LOCATION #70 - #89: (CALL RESTRICTIONS OR “ALLOWED” NUMBERS)

If the phone is intended to restrict certain calling patterns, then it must be programmed to tell it specifically which calls to allow. Enter the allowed numbers in any of these 20 locations. The numbers can range from 1 to 11 digits.

EXAMPLE:

NOTE: The * (Asterisk) symbol is defined as a wildcard. A wildcard allows any digit (0-9) to be emitted from the keypad.

#70 0-***-***-**** Allows all 0 minus and 0 plus calls.

#71 1-555-1212 Allows 1-555-1212 information calls.

#72 911 Allows 911 emergency calls.

#73 1-800-***-**** Allows 1-800 calls.

3.7 When programming is finished, return the mini-jumpers to the "OFF" position. Then return the phone to an “on hook” state (no dial tone), by pressing the black "CALL " button.

4.0 PROGRAMMING TABLES

4.1 OPTION TABLE

FUNCTION

#00

DESCRIPTION

Digit 1 2 3 4 5 6 7 8 9 10

4.2 SPEED DIAL TABLE

LOCATION DESCRIPTION

#30 _ - _ - _ - _ - _ - _ - _ - _ -

#31 _ - _ - _ - _ - _ - _ - _ - _ -

#32 _ - _ - _ - _ - _ - _ - _ - _ -

#33 _ - _ - _ - _ - _ - _ - _ - _ -

#34 _ - _ - _ - _ - _ - _ - _ - _ -

#35 _ - _ - _ - _ - _ - _ - _ - _ -

#36 _ - _ - _ - _ - _ - _ - _ - _ -

#37 _ - _ - _ - _ - _ - _ - _ - _ -

#46 _ - _ - _ - _ - _ - _ - _ - _ -

#47 _ - _ - _ - _ - _ - _ - _ - _ -

#48 _ - _ - _ - _ - _ - _ - _ - _ -

#49 _ - _ - _ - _ - _ - _ - _ - _ -

#50 _ - _ - _ - _ - _ - _ - _ - _ -

#51 _ - _ - _ - _ - _ - _ - _ - _ -

#52 _ - _ - _ - _ - _ - _ - _ - _ -

LOCATION DESCRIPTION

#38 _ - _ - _ - _ - _ - _ - _ - _ -

#39 _ - _ - _ - _ - _ - _ - _ - _ -

#40 _ - _ - _ - _ - _ - _ - _ - _ -

#41 _ - _ - _ - _ - _ - _ - _ - _ -

#42 _ - _ - _ - _ - _ - _ - _ - _ -

#43 _ - _ - _ - _ - _ - _ - _ - _ -

#44 _ - _ - _ - _ - _ - _ - _ - _ -

#45 _ - _ - _ - _ - _ - _ - _ - _ -

#53 _ - _ - _ - _ - _ - _ - _ - _ -

#54 _ - _ - _ - _ - _ - _ - _ - _ -

#55 _ - _ - _ - _ - _ - _ - _ - _ -

#56 _ - _ - _ - _ - _ - _ - _ - _ -

#57 _ - _ - _ - _ - _ - _ - _ - _ -

#58 _ - _ - _ - _ - _ - _ - _ - _ -

#59 _ - _ - _ - _ - _ - _ - _ - _ -

PROGRAMMING TABLES CONTINUED...

4.3 FREE CALL TABLE

<u>LOCATION</u>	<u>DESCRIPTION</u>	<u>LOCATION</u>	<u>DESCRIPTION</u>
#70 _ - _ - _ - _ - _ - _ - _ - _ -		#80 _ - _ - _ - _ - _ - _ - _ - _ -	
#71 _ - _ - _ - _ - _ - _ - _ - _ -		#81 _ - _ - _ - _ - _ - _ - _ - _ -	
#72 _ - _ - _ - _ - _ - _ - _ - _ -		#82 _ - _ - _ - _ - _ - _ - _ - _ -	
#73 _ - _ - _ - _ - _ - _ - _ - _ -		#83 _ - _ - _ - _ - _ - _ - _ - _ -	
#74 _ - _ - _ - _ - _ - _ - _ - _ -		#84 _ - _ - _ - _ - _ - _ - _ - _ -	
#75 _ - _ - _ - _ - _ - _ - _ - _ -		#85 _ - _ - _ - _ - _ - _ - _ - _ -	
#76 _ - _ - _ - _ - _ - _ - _ - _ -		#86 _ - _ - _ - _ - _ - _ - _ - _ -	
#77 _ - _ - _ - _ - _ - _ - _ - _ -		#87 _ - _ - _ - _ - _ - _ - _ - _ -	
#78 _ - _ - _ - _ - _ - _ - _ - _ -		#88 _ - _ - _ - _ - _ - _ - _ - _ -	
#79 _ - _ - _ - _ - _ - _ - _ - _ -		#89 _ - _ - _ - _ - _ - _ - _ - _ -	

EXAMPLE:

#70 0 - * * * - * * * - * * * * * * * *
 Allows all 0 minus and 0 plus
 phone calls.

#71 9 - 1 1 _ - _ - _ - _ - _ - _ -
 Allows 911 emergency calls.

#72 1 - 8 0 0 - * * * - * * * * * * * *
 Allows 1-800 calls if set in option table.

#73 1 - 4 1 1 - _ - _ - _ - _ - _ -
 Allows 1-411 information calls.

#74 0 - 8 0 0 - * * * - * * * * * * * *
 Allows 0-800 calls if set in
 the option table

#75 _ - _ - _ - _ - _ - _ - _ - _ -

5.0 OPERATION

- 5.1 To make a call, press the black "CALL" button located on the front of the phone. When dial tone is received, the transmitter is muted and the phone waits for numbers to be dialed.
- 5.2 To make an Emergency call, press the red "EMER" button located on the front of the phone. The preprogrammed number will dial out on the line and the blue strobe light will activate.
- 5.3 After the call is complete, press the "CALL" button again to terminate the call. 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 a WINK (momentary open) or when the timer times-out, if it was so programmed. The blue strobe light will deactivate at this point.
- 5.4 If digit 1 of Location #00 is "0", then call restrictions are in effect. The numbers that may be dialed are restricted to the numbers entered into Location #70-#79. If the number dialed is not in the Location #70-#79, then the phone gives three tones and drops the line.

If digit 1 of Location #00 is "1" then there are no restrictions and any number may be dialed.

6.0 RECOMMENDED TOOLS AND TEST EQUIPMENT

DTMF Test Set
Volt/Ohm Meter
3/8" Nut Driver
5/16" Nut Driver
Flat Blade Screw Driver
Security Tool, CEECO Part Number 301-064

7.0 INSTALLATION NOTES AND ASSEMBLY INSTRUCTIONS

- 7.1 Using a 301-064 security tool (**sold separately**) to remove the four locking screws.
- 7.2 The security tool is for a standard 5/32" button head screw generally used on the framework of the phone booths.
- 7.3 Separate the cover assembly from the Weatherproof Housing.
- 7.4 Run the inside station wire through the Weatherproof Housing and terminate on to the RJ11C terminal block on the Housing.
- 7.5 The use of a gas tube or carbon station protector is recommended. The station ground should not exceed 50 ohms.
- 7.6 Plug the modular line cord from the SPK 660-000 PC board into the RJ11C terminal block.
- 7.7 Dress the line cord away from the locking screws and seat the faceplate into the enclosure.
- 7.8 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.**

8.0 TESTING

Assuming that the phone was programmed to automatically dial an emergency number, and also allow use of the keypad for normal calls, without automatically dialing a number when the black "CALL" button is pressed, the following should apply:

- Action: Connect the phone to a working phone line or DTMF test set.
Press the black "CALL" button.
- Reaction: Dial tone.
- 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
(if programmed as such).
- Reaction: The call is terminated.
- Action: Press the "EMER" button.
- Reaction: Preprogrammed number is automatically dialed (SEE SECTION 2,
LOCATION #01) and the blue strobe light is activated. The call
will not disconnect unless the black "CALL" button is pushed, the
called party hangs up and a wink back is received, or a
programmed time out disconnect occurs. The blue strobe light will
deactivate at this time.

9.0 SPECIFICATIONS

INPUT POWER: C.O. LINE POWERED (48v-52v Loop)

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PROPRIETARY

LOOP CURRENT:	23ma. MIN. 80ma. MAX.
IMPEDANCE:	600 Ohms
SIGNALING:	DTMF, 70ms tone, 50ms spacing
OUTPUT:	-4.0 to -6.0dbm
ENVIRONMENTAL:	Temperature 0°C to 50°C Humidity 20%-90%
PROGRAMMING:	Via DTMF keypad.
DIMENSIONS:	12 5/8" High x 9 1/2" Wide x 8" Deep including Door
MEMORY RETENTION:	Lithium Battery - Long life
WEIGHT:	16 Pounds
FCC REGISTRATION:	BW88T7-13716-TE-T
RINGER EQUIVALENCY:	0.4A
TYPE JACK:	RJ11C
UL LISTED NO.:	60F5

10.0 PARTS LIST

<u>QUANTITY</u>	<u>PART NUMBER</u>	<u>DESCRIPTION</u>
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4	331-006	Outer Cover Locking- Screw
1	301-018	Modular Line Cord
1	301-054	Modular Connector (RJ11C)
1	531-200	Service Manual
1	700-008	Keypad Cable
1	660-000	CEECO SPK Board
1	705-110	Connectorized Keypad
2	6020	Momentary Panel Switch
1	14024	Speaker
1	331-005	Weatherproof Housing
1	14110	Blue Strobe Light

ACCESSORIES:

1	301-064	Security Tool
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11.0 FCC NOTICE

11.1 FCC REGISTRATION AND REPAIR INFORMATION

Your new telephone has been registered with the Federal Communication Commission (FCC) in accordance with Part 68 of it's rules. The FCC requires that you be advised of certain requirements involving the use of this telephone.

11.2 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.

11.3 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 11.00.

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

12.0 REPAIR AND RETURN INFORMATION

12.1 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.

12.2 DIRECT ALL INQUIRES TO:

CEECO

Repair Department

863-357-0798- telephone

863-357-0006- facsimile

info@ceeco.net

www.ceeco.net

12.3 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.

12.4 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 RMA must be requested no later than 30 days after original shipment.

13.0 WARRANTY POLICY

13.1 GENERAL

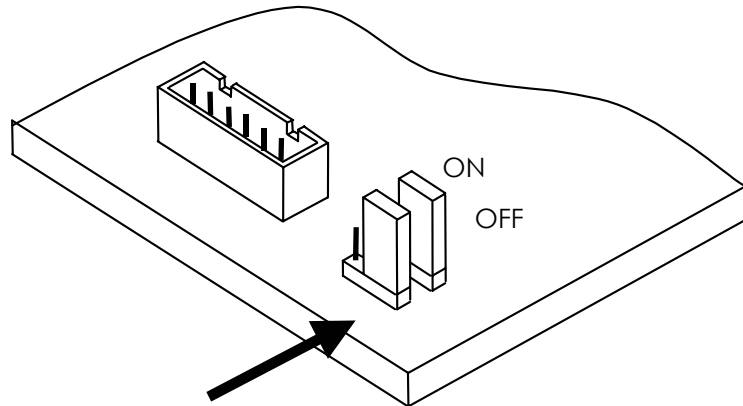
CEECO products are guaranteed to be free of defects in material and workmanship for a period of 365 days from the date of original purchase. CEECO's obligation under this warranty is limited to repair or replacement of any part found to be defective by CEECO. Under no circumstances shall CEECO be liable for loss, damage, cost of repair or consequential damages of any kind, which have been caused by neglect, abuse, act of God or improper operation of equipment. This warranty is limited to the value of material only.

13.2 PRINTED CIRCUIT BOARDS

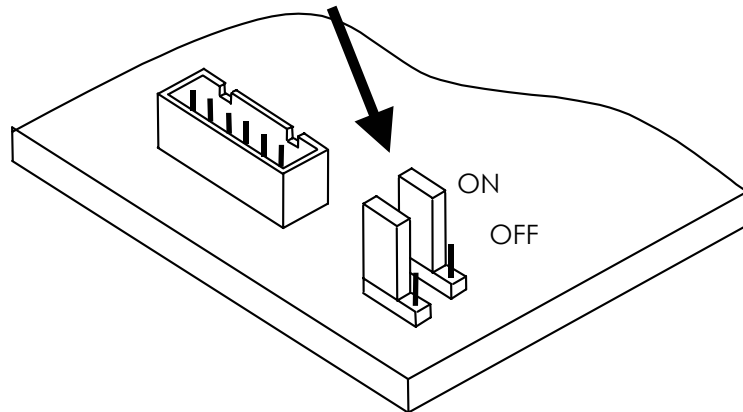
Printed circuit boards should not be repaired in the field. If a unit is found to be faulty, replace it with another unit and return the faulty unit to CEECO for repair. Modifications by any one other than CEECO will void the warranty.

14.0 DIAGRAM

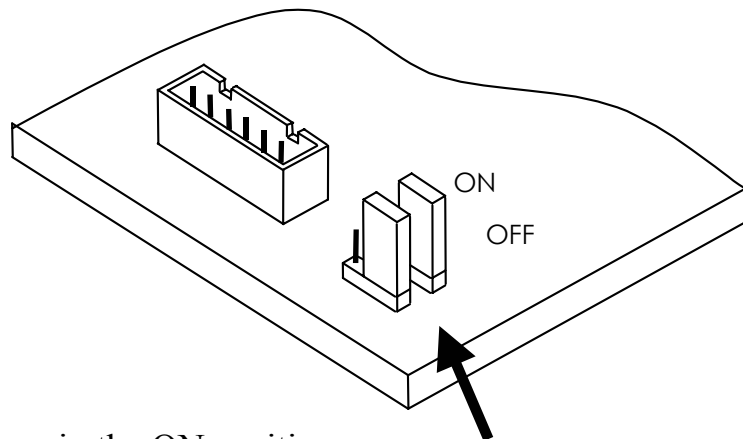
Locate the mini jumpers on the corner of the PCB.



Move the mini jumpers to the ON position BEFORE going off-hook.



When programming is completed, move the mini jumpers to the OFF position.



NOTE:

Do not leave the mini jumpers in the ON position, this will decrease battery life.