SERVICE MANUAL

FOR

MODEL WPP(HOB)-531-F

HANDS FREE WEATHERPROOF TELEPHONE

AND

MODEL SSP-511-F

STAINLESS STEEL PANEL TELEPHONE

EQUIPPED WITH SPKSPD1.00 SPEED DIAL FIRMWARE

CEECO

	Serving the Telephone Industry Since 1930
Communication Equipment	**519 West South Park Street**
& Engineering Company	**Okeechobee, Florida 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(HOB)-531-F OR SSP-511-F EQUIPPED WITH SPKSPD1.00 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 & Engineering Company

519 West South Park Street
Okeechobee, Florida 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 WPP(HOB)-531-F or Model SSP-531-F Telephone with SPKSPD1.00 firmware.

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, Florida 34972

(863) 357-0798
(863) 357-0006 FAX

2.0   GENERAL

2.1   The CEECO hands free telephone is a sturdy, vandal resistant, Stainless Steel Panel Speakerphone. Instead of a hookswitch and handset, the telephone has a Press to start/Press to stop button for initiation and termination of phone calls.

2.2   The microphone is muted during periods of dial tone eliminating the use of hand held dialers.

2.3   Incoming calls may be allowed or blocked depending on the programming.

2.4   Programming is accomplished via the DTMF keypad.

2.5   This telephone provides the ability to make speed dial type telephone calls only. There are 90 locations available to program speed dial numbers of up to eleven digits in length each. Once programmed and installed, the user simply presses the button for dial tone and presses the desired two keys to release the corresponding speed dial number. Signage or a director is suggested near the telephone for user instruction.

2.6   The SSP-511-F Stainless Steel Panel Telephone may also be purchased in a full weatherproof housing, WPP-531-F, or open-faced weather-resistant housing, HOB-531-F. In all cases the panel telephone remains the same.

2.7   The telephone includes provisions for pre-programming a PBX or other access number to automatically dial when the button is pressed. The keypad may then be used to continue with speed dialing.

3.0   PROGRAMMING

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

3.1   **Connect the telephone** to a working telephone line or a DTMF test set.

3.2   Locate the pair of plastic **mini-jumpers** along the edge of the PC board. Move them to the **"on"** or inner most position as depicted in the diagram on the last page of this manual.

3.3   **Press** the "CALL & HANGUP" **button** and wait for dial tone before entering programming digits.

3.4   Begin by entering **#97**, which **will clear all** user programmable memory.

   NOTE: Once the # key has been entered, you may hear a fast busy tone, an operator recording, or other Central Office signals. Please disregard these sounds and continue programming, as they will have no effect on the programming.

3.5   Each programming location is accessed by dialing the # sign and the corresponding two digit code. The previous contents of the location are automatically erased when the location code is accessed.

3.6   **Enter #00, followed by** a series of **ten (10) digits** as selected from the following page. Location "00" is the telephone options location. By entering a selected number of 0-9 into each of the ten digit locations, the phone is customized for the particular installation.

PROGRAMMING CONTINUED…

Be sure to record your selections below for future reference.

#00 <u>0</u>   __   __   __   <u>0</u>   __   <u>0</u>   __   <u>0</u>   __

<u>Digit 1:</u>
0   **Always 0** for this model

<u>Digit 2:</u>
0   No incoming calls allowed.
1   Incoming calls allowed.

<u>Digit 3:</u>
0   **Always 0** for this model.

<u>Digit 4:</u>
0   No Time Out Feature On Speed Dialing
1 -9   Minutes for Time Out for Speed Dialing

<u>Digit 5:</u>
0   **Always 0** for this model.

<u>Digit 6:</u>
1   **Always 1** for this model.

<u>Digit 7:</u>
0   **Always 0** for this model.

<u>Digit 8:</u>
0   Do Not Dial PBX number in Location #91
1   Dial PBX number in Location #91

<u>Digit 9:</u>
0   **Always 0** for this model.

<u>Digit 10:</u>
0   No Wink Detect
1-9   Length of the Wink (l = 50ms incremental to 450ms. **5** is recommended)

PROGRAMMING CONTINUED…

EXAMPLE:

Enter #00 <u>0</u> <u>1</u> <u>0</u> <u>6</u> <u>0</u> <u>1</u> <u>0</u> <u>0</u> <u>0</u> <u>5</u>

Phone will be set as follows:
> DIGIT 1 .. ALWAYS 0
> DIGIT 2 .. INCOMING CALLS ALLOWED
> DIGIT 3 .. ALWAYS 0
> DIGIT 4 .. 6 MINUTE TIME OUT FOR SPEED DIALING
> DIGIT 5 .. ALWAYS 0
> DIGIT 6 .. ALWAYS 1
> DIGIT 7 .. ALWAYS 1
> DIGIT 8 .. DO NOT DIAL PBX NUMBER IN LOCATION #91
> DIGIT 9 .. ALWAYS 0
> DIGIT 10 .250ms WINK

3.7   <u>LOCATIONS #01-#90</u>   (**SPEED DIALING**)

If repertory/speed dialing is needed, enter the desired numbers as described in this section.   There are forty (90) memory locations available (#01-#90).   The number(s) can range from 1-11 digits in length. **Enter** the **# Key,** the intended **memory location**, **and the desired speed dial number**. When the phone is placed into operation, the user will simply dial the two-digit memory location code, and there is no longer a need to dial the # key first. This will cause the corresponding speed dial number to automatically dial out.

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.

- Be sure to log your entries in the speed dial table on the next page for future reference.

SPEED DIAL TABLE…

#01 _ - _ _ _ - _ _ _ - _ _ _ _   #21 _ - _ _ _ - _ _ _ - _ _ _ _

#02 _ - _ _ _ - _ _ _ - _ _ _ _   #22 _ - _ _ _ - _ _ _ - _ _ _ _

#03 _ - _ _ _ - _ _ _ - _ _ _ _   #23 _ - _ _ _ - _ _ _ - _ _ _ _

#04 _ - _ _ _ - _ _ _ - _ _ _ _   #24 _ - _ _ _ - _ _ _ - _ _ _ _

#05 _ - _ _ _ - _ _ _ - _ _ _ _   #25 _ - _ _ _ - _ _ _ - _ _ _ _

#06 _ - _ _ _ - _ _ _ - _ _ _ _   #26 _ - _ _ _ - _ _ _ - _ _ _ _

#07 _ - _ _ _ - _ _ _ - _ _ _ _   #27 _ - _ _ _ - _ _ _ - _ _ _ _

#08 _ - _ _ _ - _ _ _ - _ _ _ _   #28 _ - _ _ _ - _ _ _ - _ _ _ _

#09 _ - _ _ _ - _ _ _ - _ _ _ _   #29 _ - _ _ _ - _ _ _ - _ _ _ _

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

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

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

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

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

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

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

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

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

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

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

SPEED DIAL TABLE CONTINUED…

#41 _ - _ _ _ - _ _ _ - _ _ _ _   #61 _ - _ _ _ - _ _ _ - _ _ _ _

#42 _ - _ _ _ - _ _ _ - _ _ _ _   #62 _ - _ _ _ - _ _ _ - _ _ _ _

#43 _ - _ _ _ - _ _ _ - _ _ _ _   #63 _ - _ _ _ - _ _ _ - _ _ _ _

#44 _ - _ _ _ - _ _ _ - _ _ _ _   #64 _ - _ _ _ - _ _ _ - _ _ _ _

#45 _ - _ _ _ - _ _ _ - _ _ _ _   #65 _ - _ _ _ - _ _ _ - _ _ _ _

#46 _ - _ _ _ - _ _ _ - _ _ _ _   #66 _ - _ _ _ - _ _ _ - _ _ _ _

#47 _ - _ _ _ - _ _ _ - _ _ _ _   #67 _ - _ _ _ - _ _ _ - _ _ _ _

#48 _ - _ _ _ - _ _ _ - _ _ _ _   #68 _ - _ _ _ - _ _ _ - _ _ _ _

#49 _ - _ _ _ - _ _ _ - _ _ _ _   #69 _ - _ _ _ - _ _ _ - _ _ _ _

#50 _ - _ _ _ - _ _ _ - _ _ _ _   #70 _ - _ _ _ - _ _ _ - _ _ _ _

#51 _ - _ _ _ - _ _ _ - _ _ _ _   #71 _ - _ _ _ - _ _ _ - _ _ _ _

#52 _ - _ _ _ - _ _ _ - _ _ _ _   #72 _ - _ _ _ - _ _ _ - _ _ _ _

#53 _ - _ _ _ - _ _ _ - _ _ _ _   #73 _ - _ _ _ - _ _ _ - _ _ _ _

#54 _ - _ _ _ - _ _ _ - _ _ _ _   #74 _ - _ _ _ - _ _ _ - _ _ _ _

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

#56 _ - _ _ _ - _ _ _ - _ _ _ _   #76 _ - _ _ _ - _ _ _ - _ _ _ _

#57 _ - _ _ _ - _ _ _ - _ _ _ _   #77 _ - _ _ _ - _ _ _ - _ _ _ _

#58 _ - _ _ _ - _ _ _ - _ _ _ _   #78 _ - _ _ _ - _ _ _ - _ _ _ _

#59 _ - _ _ _ - _ _ _ - _ _ _ _   #79 _ - _ _ _ - _ _ _ - _ _ _ _

#60 _ - _ _ _ - _ _ _ - _ _ _ _   #80 _ - _ _ _ - _ _ _ - _ _ _ _

SPEED DIAL TABLE CONTINUED…

#81 _ - _ _ _ - _ _ _ - _ _ _ _   #86 _ - _ _ _ - _ _ _ - _ _ _ _

#82 _ - _ _ _ - _ _ _ - _ _ _ _   #87 _ - _ _ _ - _ _ _ - _ _ _ _

#83 _ - _ _ _ - _ _ _ - _ _ _ _   #88 _ - _ _ _ - _ _ _ - _ _ _ _

#84 _ - _ _ _ - _ _ _ - _ _ _ _   #89 _ - _ _ _ - _ _ _ - _ _ _ _

#85 _ - _ _ _ - _ _ _ - _ _ _ _   #90 _ - _ _ _ - _ _ _ - _ _ _ _

PROGRAMMING CONTINUED…

3.9 If it is necessary for the telephone to first automatically dial a PBX or
other access number, **ENTER #91** followed by the desired number.
BUTTON. For example: # 9 1 9. This will cause the telephone to automatically
dial this number when the button is pressed to initiate the   call. In the case of
the   "FD" model, this will apply to both buttons. Also,   any number entered in the
#92 location above will dial out after a brief pause. NOTE: Digit 8 under the
#00   location programming must be set to "1" for this feature to work.

3.10 When programming is finished, **hang up** the telephone by pressing the
"CALL & HANGUP" button. Return the two plastic **mini-jumpers**
to the **"OFF"** or outermost position, as depicted in the diagram on the last page
of this manual. The phone is now ready for use.

4.0   OPERATION

4.1   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.

4.2   Press the desired two keys on the keypad to release a pre-programmed speed dial number. The digits should dial out. When answered, a normal speakerphone conversation may take place.

4.2   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.

   NOTE: In some cases, a local PBX does not automatically send a wink back as a Central Office would. Some of these PBXs can be programmed to do so. It would be necessary to contact the manufacturer of the PBX.

5.0   RECOMMENDED TOOLS AND TEST EQUIPMENT

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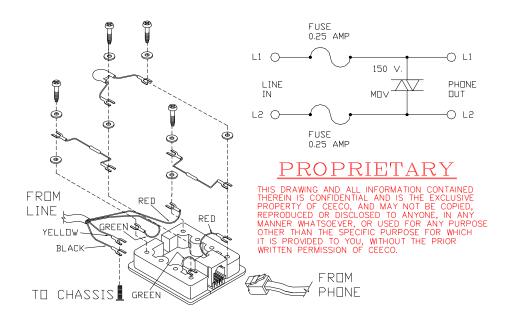Security Tool, CEECO Part Number 301-064

6.0   INSTALLATION NOTES AND ASSEMBLY INSTRUCTIONS

6.1   Using a 301-064 security tool (sold separately) to remove the four locking 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 cover assembly from the Housing.

6.4   Run the inside station wire through the Housing and terminate on to the RJ11C modular jack on the housing, as depicted on the following page. This CEECO-provided modular jack <u>must</u> be used, as it contains required over-voltage protection.

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

6.6   Plug the modular line cord from the PC board into the RJ11C terminal block.

6.7   Dress the line cord away from the locking screws and seat the faceplate into the enclosure.

6.8   Secure the cover assembly by tightening the security screw.

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*****WARNING*****

</div>

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 uninsultated telephone wires or terminals unless the telephone line has been disconnected at the network interface.**

D.   **Use caution when installing or modifying telephone lines.**

7.0   OVER-VOLTAGE PROTECTION DIAGRAM

9.0   TESTING

Action: Connect the phone to a working phone line.
                 Press the black "CALL" button.

Reaction: Dial tone.

Action: Press two pre-programmed keys on the key pad.

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.

10.0   SPECIFICATIONS

INPUT POWER:	C.O. Line Powered
LOOP CURRENT:	30Ma min. 80Ma max.(48 Volt loop)
IMPEDANCE:	600 ohms
SIGNALING:	DTMF, 70ms tone, 50ms spacing
LINE OUTPUT	-10.0dbm to –12.0dbm
ENVIRONMENTAL:	Temperature: 0°C to 50°C
	Humidity: 20%-90%
PROGRAMMING:	Via DTMF Keypad
TELEPHONE PANEL:	Brushed 14 gauge Stainless Steel
DIMENSIONS:	7 1/6" wide x 11 1/4" high x 4 1/4" deep
(SSP)	(handset on hook).
MOUNTING:	Vertical surface mount.
WEIGHT:	Approximately 4 lb.
WEATHERPROOF	
HOUSING:	Cast aluminum
DIMENSIONS:	9 1/2" wide x 12 5/8" high x 8" deep
(WPP)	(including door).
MOUNTING:	4 holes spaced 8" x 5 7/8" x 13/32"
WEIGHT:	Approximately 12 pounds
HOB DIMENSIONS:	7.08"Wide x 11.25"High x 5"Deep Top +3" Bottom
MOUNTING:	4 holes spaced 8"H x 5 7/8"W and 5/16" Dia.
WEIGHT:	Approximately 5 lb
MEMORY RETENTION:	Non-volatile memory retention
FCC REGISTRATION:	BW88T7-13823-TE-T
RINGER EQUIVALENCE:	0.7A
TYPE JACK:	RJ11C
UL LISTED NO.:	6OF5

11.0 PARTS LIST

QUANTITY	PART NUMBER	DESCRIPTION
1	705-110	Keypad
1	700-008	Keypad Cable
1	660-000	CEECO SPK Board
1	6020	Momentary Panel Switch
1	14123	Speaker
1	301-006	Ringer
1	301-009	Network
1	331-010	Stainless Steel Panel
1	331-005	Cast Aluminum Weather Proof Housing
1	331-HOB-B	Black 0pen style weather-resistant housing
1	331-HOB-R	Red Open style weather-resistant housing
4	331-006	Outer Cover Locking- Screw
1	301-018	Modular Line Cord
1	301-054	Modular Connector (RJ11C)
1	531-200	Service Manual

ACCESSORIES

1	301-064	Security Tool

12.0 FCC NOTICE

12.1 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.

12.2 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.

12.3 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.

13.0 REPAIR AND RETURN INFORMATION

13.1 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.

13.2 DIRECT ALL INQUIRES TO:

CEECO
Repair Department
519 West South Park Street
Okeechobee, Florida 34972

(863) 357-0798

13.3 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.

13.4 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.

14.0 WARRANTY POLICY

14.1 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.
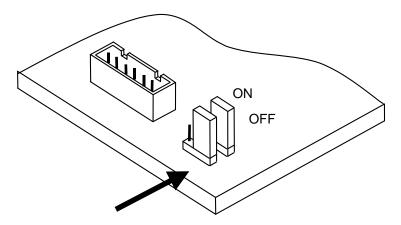
14.2 PRINTED CIRCUIT BOARDS

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.
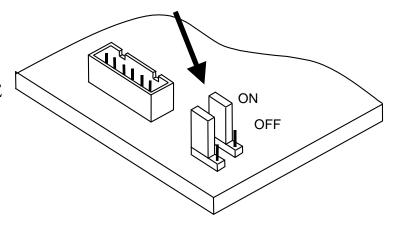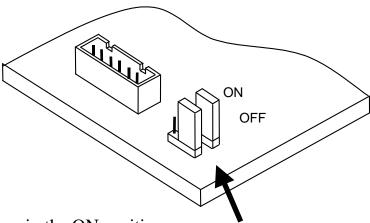
15.0   DIAGRAM

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.