

# **WHELEN<sup>®</sup>**

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## **AUXILIARY CONTROL/STATUS (AUXCS)**

**SERVICE GUIDE**  
**(as used with the ESC864 controller)**

**Outdoor Warning**

## PRODUCT DESCRIPTION

### AUXILIARY CONTROL/STATUS OPTION

Model # AUXCS

Part # 01-1467765-00C

Doc. # 04-0113311-00C

#### GENERAL-

Whelen's High Power Voice and Siren Systems may be equipped with an optional module that allows the user to remotely control siren functions and to remotely collect siren status. The following Whelen commands are supported:

- Cancel (or Clear)
- Wail
- Attack
- Alert
- Public Address
- Air Horn
- Hi-Lo
- Whoop
- Noon Test
- Digital Voice Messages 1-16
- Silent Test
- Silent Test Clear
- North
- East
- South
- West
- Clockwise
- Counter Clockwise
- Strobe On
- Strobe Off

The following status bits are supported with Normally Open relay closures:

AC	AC voltage is present
DC	DC voltage is good
Partial	At least one amplifier active
Full	All amplifiers, drivers active
Rotor	Rotor active
Intrusion	Intrusion active

In addition to commands and status functions, the Auxiliary Control/Status Option has two transformer coupled circuits for accepting audio. One circuit is active in conjunction with the Public Address command, while the other circuit is used for local audio, such as a local microphone or paging system. The local audio must have a "Push to Talk" contact closure for operation. In either case the audio is broadcast over the system.

To activate one of the supported commands, simply make a closure between the desired command input and ground. Typically, a relay is used to make a remote connection. An open collector device may be used, as long as it meets the electrical specifications of this document.

When an input is activated, by a momentary closure, the siren function will run for the preprogrammed time or until another command is activated. For example, the Cancel command will override a warning tone and silence the siren. Note that if a closure is maintained, it can not be overridden.

The local audio path operates a little differently than the other commands. The "Push to Talk" closure must be maintained for the duration of the command, however, the activation will automatically turn off if held active for more than 8 minutes.

The input cables may be up to 4000 feet away, based on at least 26 AWG cable. Any audio cable must be shielded twisted pair, grounded at the audio source.

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**AUXILIARY CONTROL/STATUS OPTION****PRODUCT SPECIFICATION****Terminal Block 1**

<u>Contact Number</u>	<u>Input Function</u>
1	Ground
2	Cancel Command Input
3	Wail Command Input
4	Attack Command Input
5	Alert Command Input
6	Public Addr. Cmd Input
7	Ground
8	Air Horn Command Input
9	Hi - Lo Command Input
10	Whoop Command Input
11	Noon Test Input
12	Silent Test Cmd Input
13	Ground
14	Silent Test Clear Input
15	Message 1 Input
16	Message 2 Input
17	Message 3 Input
18	Message 4 Input
19	Ground
20	Message 5 Input
21	Message 6 Input
22	Message 7 Input
23	Message 8 Input

**Terminal Block 1**

<u>Contact Number</u>	<u>Input Function</u>
24	Message 9 Input
25	Ground
26	Message 10 Input
27	Message 11 Input
28	Message 12 Input
29	Message 13 Input
30	Message 14 Input
31	Ground
32	Message 15 Input
33	Message 16 Input
34	North Command Input
35	East Command Input
36	South Command Input
37	Ground
38	West Command Input
39	Clockwise Cmd Input
40	Counter Clockwise Input
41	Strobe On Cmd Input
42	Strobe Off Cmd Input
43	Ground
44	Remote Audio Input
45	Remote Audio Input

**Terminal Block 2**

<u>Contact Number</u>	<u>Function</u>
1	AC Status N. O.
2	AC Status N. O.
3	DC Status N. O.
4	DC Status N. O.
5	Partial Status N. O.
6	Partial Status N. O.
7	Full Status N. O.
8	Full Status N. O.
9	Rotor Status N. O.

**Terminal Block 2**

<u>Contact Number</u>	<u>Function</u>
10	Rotor Status N. O.
11	Intrusion Switch N. O.
12	Intrusion Switch N. O.

**Terminal Block 3**

<u>Contact Number</u>	<u>Function</u>
1	Push to Talk Input
2	Push to Talk Ground
3	Local Audio Input
4	Local Audio Input

**Electrical Input Specifications**

Minimum Closure Time:	250 ms
Low Level Current (min):	35 mA
High Level Voltage (max):	32 VDC
Audio Input Level:	-17 to +10 dB

**Electrical Output Specifications**

Maximum voltage rating	24 VDC
Current rating :	250 mA

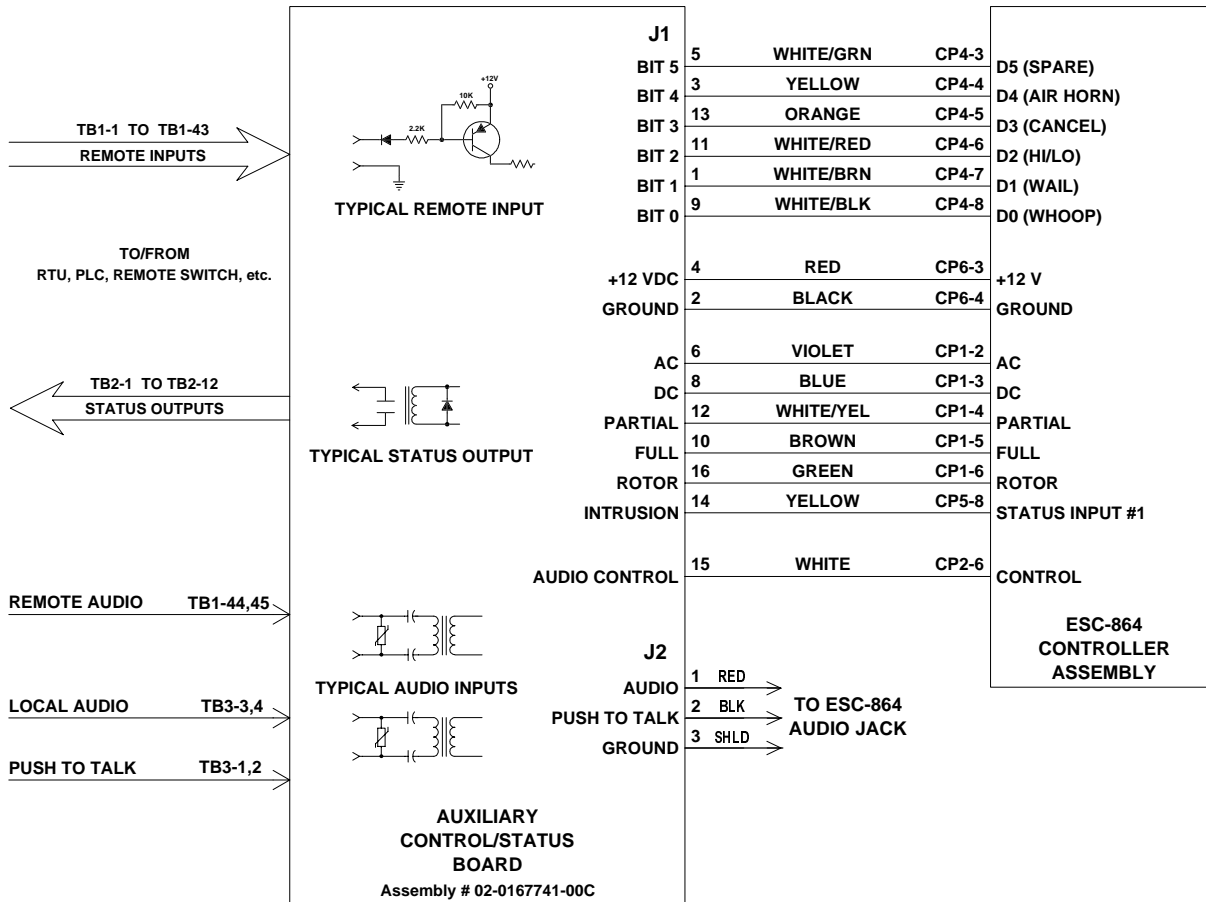
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Two wire harnesses are supplied with the Auxiliary Control/Status Option for connecting to the ESC-864 Controller.

A 16 position connector, J1, plugs into the Auxiliary Control/Status circuit board at one end. The other end of the harness consists of a 6 position Phoenix connector, a 9 position Phoenix connector and two single wires. The 6 position connector goes to CP-1 for Status information, the 9 position connector goes to CP-4 for Remote Control

functions and the single yellow wire goes to CP-5 pin 8, for the Intrusion bit. The single white wire goes to CP-2 pin 6, for audio control.

The other harness is a three wire harness with an audio plug at one end and a 3 position connector at the other end. The 3 position connector plugs in to J2 on the Auxiliary Control/Status circuit board. The audio plug connects to the audio jack on the front of the ESC-864 Controller.



### WIRING DIAGRAM



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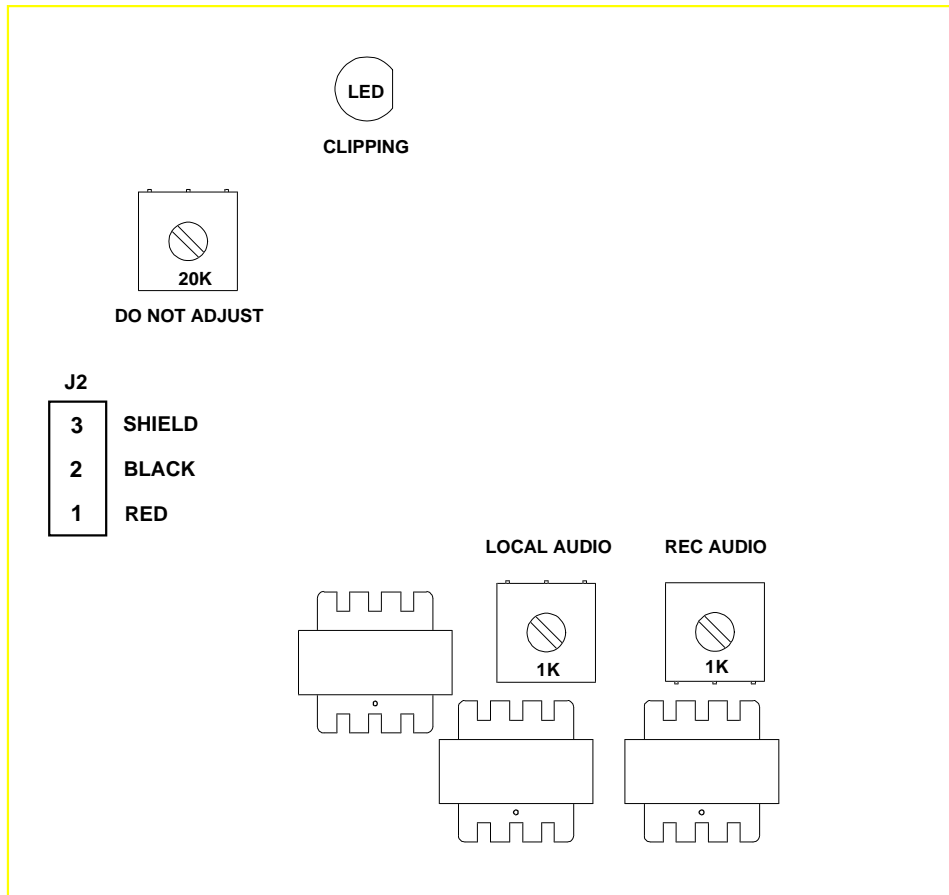
There are three potentiometers for audio level adjustments on the Auxiliary Control/Status Option. Refer to the diagram below for the location of the potentiometers.

The potentiometers are factory set for typical signal levels, however, some adjustment may be necessary depending on the actual audio source in the field.

The upper most potentiometer is factory set for a minimum clipping level. This potentiometer should not be adjusted. The Receive Audio and/or the Local Audio

potentiometers are adjusted until the clipping indicator LED just starts to flicker on. The Local Audio potentiometer is the one towards the rear of the cabinet, while the Receive Audio potentiometer is the one towards the front of the cabinet.

**Note:** The front panel MIC VOLUME control should be set full volume (clockwise) if the Auxiliary Control/Status Option is being used.



## ADJUSTMENTS

Doc. 13311

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