

## BSS: Soundweb London

This module controls a "Matrix Mixer" object in a Soundweb London program.

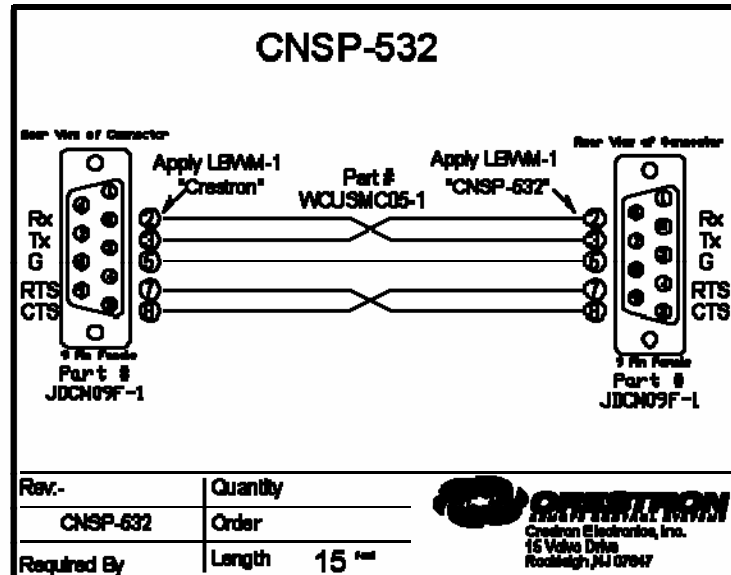


### GENERAL INFORMATION

<b>SIMPLWINDOWS NAME:</b>	BSS Soundweb London Matrix Mixer v4.2
<b>CATEGORY:</b>	Mixer
<b>VERSION:</b>	V4.2
<b>SUMMARY:</b>	This module controls a "Matrix Mixer" object in a Soundweb London program.
<b>GENERAL NOTES:</b>	<p>Each object in a Soundweb London program is given an object number. You have to specify the object id of the "Matrix Mixer" object that is to be controlled. (objectID parameter)</p> <p>The TX and RX of this module should be connected to a "BSS Soundweb London Node v4.2.usp" module. This "Node" module needs to have its "Node" parameter set to the node of the Soundweb London device to control.</p> <p>All analog input and outputs range from 0d to 65535d (0% to 100%)</p> <p>When you subscribe to a State-Variable, the Soundweb London will send an unsolicited updates automatically whenever that state-variable is changed in order to keep the Crestron system in sync with the London without requiring extra effort from the programmer to set up 'polling', or requiring the Crestron processor to constantly check for updates. The first time the subscribe message is sent the Soundweb London will respond with its current state much like a 'GET' statement. The Soundweb London will keep sending updates until a 'UNSUBSCRIBE' input is pulsed. Normal practice would be to tie the Subscribe input to the TCP/IP connection feedback so that if a socket is dropped it will automatically sync when the socket is re-established. If using RS232, putting a 1 on the subscribe input will ensure true-feedback.</p> <p>NOTE: The subscribe and un-subscribe signals must be mutually exclusive as transitions from low-to-high while the other signal is already high is not allowed. If this error state is encountered, an error message will be sent to the console.</p> <p>First select an input to control by the analog input "input". Then for that input choose which outputs should be switched to and set the gain for that output.</p>
<b>CRESTRON HARDWARE REQUIRED:</b>	X-series or preferable 2-series
<b>SETUP OF CRESTRON HARDWARE:</b>	<p>The demo program was created on a CP2E with TPS-4000</p> <p>The Soundweb London is to be connected on a com port with a standard crossed cable and the following settings:</p> <p>115200, 8, 1, N</p> <p>Or to use TCP/IP: Port 1023</p>
<b>VENDOR FIRMWARE:</b>	3.06
<b>VENDOR SETUP:</b>	Soundweb London Blu-160



## CABLE DIAGRAM:



## CONTROL:

output_gain_X	A	set the gain for output X of the currently selected input
output_mute_X	D	Set high to unmute the currently selected input to output X Set low to mute the currently selected input being switched to output X
input	A	set which input is to be controlled. 1d to 48d
subscribe	D	subscribe to all functions (state variables) of the object. Only for the currently selected input.



unsubscribe	D	unsubscribe to all functions (state variables) of the object. Only for the currently selected input.
rx	S	connected to the "modulesRx" of the correct "BSS Soundweb London Node v4.2.usp" module

## FEEDBACK:

output_X_gain_fb	A	Gain feedback for output X of the currently selected input
output_X_mute_fb	D	When high the currently selected input is unmuted to output X When low the currently selected input is muted to output X
tx	S	connected to the "modulesTx" of the correct "BSS Soundweb London Node v4.2.usp" module

## PARAMETERS:

objectID	d	specifies which objectID is to be controlled. (3 bytes, for example: "\x00\x00\x01") (get this information from the BSS programmer)
iMaxoutput	d	Set the highest used output. When you use for example only "output_2_Gain" and "output_4_On", this parameter needs to be set to "4d"

## TESTING:

**OPS USED FOR TESTING:** 4.003.0015

**COMPILER USED FOR TESTING:** 2.12.44

**SAMPLE PROGRAM:** BSS Soundweb London v4.2 Demo Program

**REVISION HISTORY:**

V1.0 Creation  
V3 – BSS made changes to a number of modules.  
V4.0 – Changed the RX\$ input on the Simpl+ modules to from a STRING\_INPUT to a BUFFER\_INPUT. Changed the room combine module so it requests the current value when it is done making changes.  
V4.1 – Changed subscribing to two input signals one for subscribing and one for unsubscribing. Changed the module from an .usp file and an .umc file to just an .usp file.  
V4.2 – Fixed rounding error, and updated help file.

