

# TALKBACK INTERCOM SYSTEM

## V-2925A - ADD ON EXPANSION UNIT FOR THE V-2924A

The basic V-2924A Talkback Intercom System provides 24 stations with one-way, two-way, group call and all call pages. The V-2925A Expansion Unit is an add on unit for the V-2924A. Each V-2925A Expansion Unit will expand the V-2924A by twenty-four (24) additional stations. Up to three (3) Expansion Units can be added to a system for a total of 48, 72, or 96 zones of paging.

The V-2925A can **ONLY** be used with the V-2924A. If you have the V-2924 model, please contact Technical Support for assistance.

***WARNING: Disconnect main power before servicing.***

### ***Mounting***

- Plug the Expansion Unit into the Control Unit. For the first Expansion Unit, insert the P1 connector from the Expansion Unit into the P8 connector on the Control Unit (Refer to Figure 1 for location of connectors). (For each additional Expansion Unit, insert P2 into P1 – Refer to Figure 1 of the Control Unit document).
- Close latches attached to the top and bottom of the Expansion Unit over the keepers on the top and bottom of the Control Unit.
- Drill holes into backboard through mounting flanges on the Expansion Unit.
- Insert screws into holes and tighten screws firmly.

### ***Connections***

Each Expansion Unit requires (2) 66B type punchdown blocks. Mount these on the backboard near the associated Expansion Unit. Make connections to the punchdown blocks as specified in Figure 2 – Punchdown Block Connections.

### ***Setting Option Switches***

All options programmed for the Control Unit are available on the additional stations provided by the Expansion Units. The only switches on the Expansion Unit requiring attention are those for Background Music. Refer to Figure 1 for location and Table 1 for the default values of these switches. Make changes as desired for the various zones.

### ***Dimensions/Weight***

- 17.5”H x 8.37”W x 3.06”D  
(44.45cm H x 21.26cm W x 7.77cm D)
- 11 lbs. (5.0 kg)

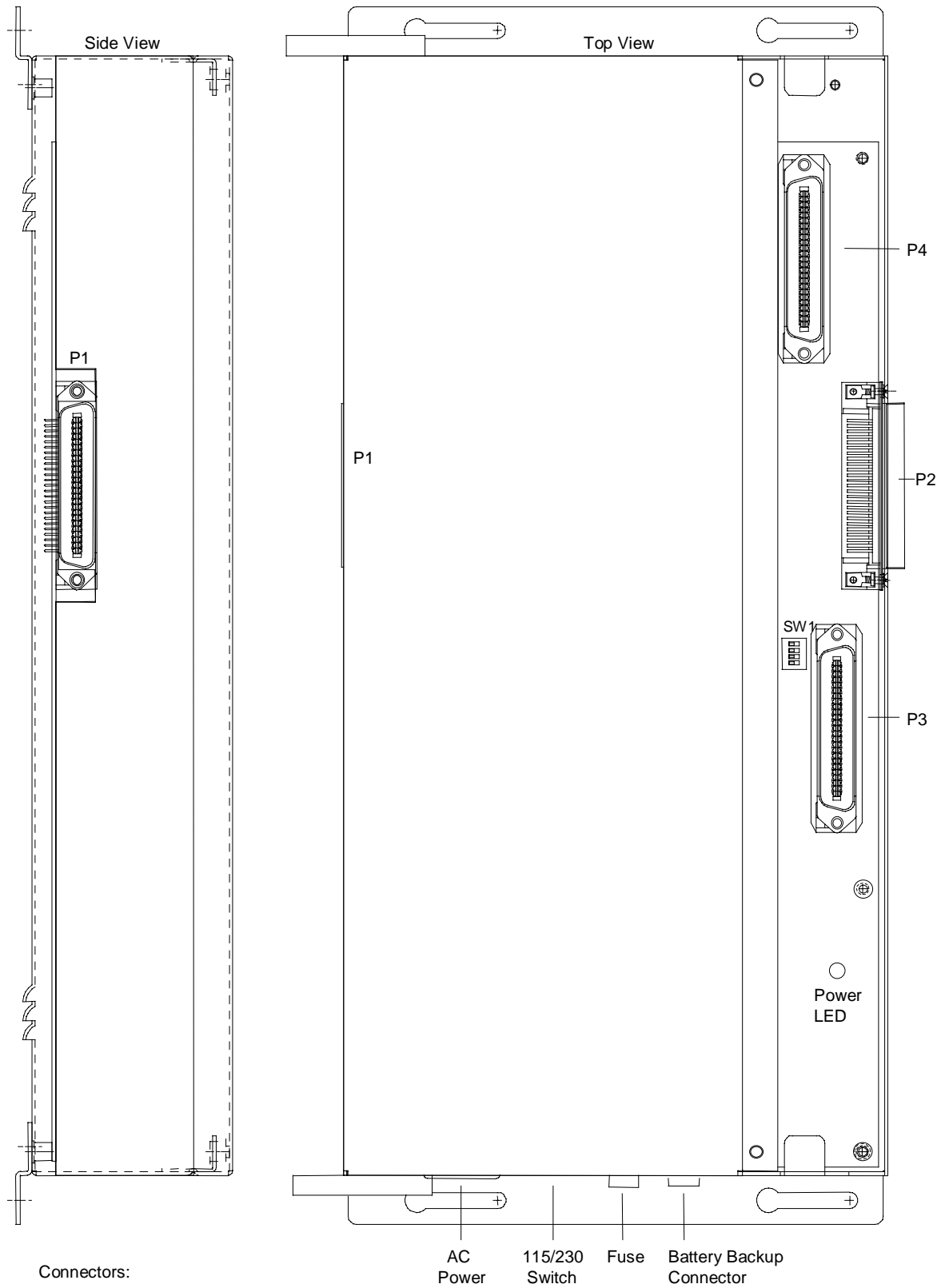
### ***Operation***

Same as Control Unit.

***V-2924A with V-2925A Expansion Unit.***



**FIGURE 1 - V-2925A CONTROL AND CONNECTOR LOCATIONS**



**Connectors:**

- P1 - Connects to the V-2924A Control Unit
- P2 - Connects to an additional V-2925A Expansion Unit
- P3 - Switch Inputs
- P4 - Speaker Outputs

**Switches:**

- SW1 - BGM Group Select Dip Switch (See Table)

## FIGURE 2 - PUNCHDOWN BLOCK CONNECTIONS

Block P3 - Switch Inputs					Block P4 - Speaker Outputs				
		Expansion Unit #1	*Expansion Unit #2	*Expansion Unit #3			Expansion Unit #1	*Expansion Unit #2	*Expansion Unit #3
26	W/BL	INA25	INA49	INA73	26	W/BL	T STA25	T STA49	T STA73
1	BL/W	INB25	INB49	INB73	1	BL/W	R STA25	R STA49	R STA73
27	W/O	INA26	INA50	INA74	27	W/O	T STA26	T STA50	T STA74
2	O/W	INB26	INB50	INB74	2	O/W	R STA26	R STA50	R STA74
28	W/GR	INA27	INA51	INA75	28	W/GR	T STA27	T STA51	T STA75
3	GR/W	INB27	INB51	INB75	3	GR/W	R STA27	R STA51	R STA75
29	W/BR	INA28	INA52	INA76	29	W/BR	T STA28	T STA52	T STA76
4	BR/W	INB28	INB52	INB76	4	BR/W	R STA28	R STA52	R STA76
30	W/S	INA29	INA53	INA77	30	W/S	T STA29	T STA53	T STA77
5	S/W	INB29	INB53	INB77	5	S/W	R STA29	R STA53	R STA77
31	R/BL	INA30	INA54	INA78	31	R/BL	T STA30	T STA54	T STA78
6	BL/R	INB30	INB54	INB78	6	BL/R	R STA30	R STA54	R STA78
32	R/O	INA31	INA55	INA79	32	R/O	T STA31	T STA55	T STA79
7	O/R	INB31	INB55	INB79	7	O/R	R STA31	R STA55	R STA79
33	R/G	INA32	INA56	INA80	33	R/G	T STA32	T STA56	T STA80
8	G/R	INB32	INB56	INB80	8	G/R	R STA32	R STA56	R STA80
34	R/BR	INA33	INA57	INA81	34	R/BR	T STA33	T STA57	T STA81
9	BR/R	INB33	INB57	INB81	9	BR/R	R STA33	R STA57	R STA81
35	R/S	INA34	INA58	INA82	35	R/S	T STA34	T STA58	T STA82
10	S/R	INB34	INB58	INB82	10	S/R	R STA34	R STA58	R STA82
36	BK/BL	INA35	INA59	INA83	36	BK/BL	T STA35	T STA59	T STA83
11	BL/BK	INB35	INB59	INB83	11	BL/BK	R STA35	R STA59	R STA83
37	BK/O	INA36	INA60	INA84	37	BK/O	T STA36	T STA60	T STA84
12	O/BK	INB36	INB60	INB84	12	O/BK	R STA36	R STA60	R STA84
38	BK/G	INA37	INA61	INA85	38	BK/G	T STA37	T STA61	T STA85
13	G/BK	INB37	INB61	INB85	13	G/BK	R STA37	R STA61	R STA85
39	BK/BR	INA38	INA62	INA86	39	BK/BR	T STA38	T STA62	T STA86
14	BR/BK	INB38	INB62	INB86	14	BR/BK	R STA38	R STA62	R STA86
40	BK/S	INA39	INA63	INA87	40	BK/S	T STA39	T STA63	T STA87
15	S/BK	INB39	INB63	INB87	15	S/BK	R STA39	R STA63	R STA87
41	Y/BL	INA40	INA64	INA88	41	Y/BL	T STA40	T STA64	T STA88
16	BL/Y	INB40	INB64	INB88	16	BL/Y	R STA40	R STA64	R STA88
42	Y/O	INA41	INA65	INA89	42	Y/O	T STA41	T STA65	T STA89
17	O/Y	INB41	INB65	INB89	17	O/Y	R STA41	R STA65	R STA89
43	Y/G	INA42	INA66	INA90	43	Y/G	T STA42	T STA66	T STA90
18	G/Y	INB42	INB66	INB90	18	G/Y	R STA42	R STA66	R STA90
44	Y/BR	INA43	INA67	INA91	44	Y/BR	T STA43	T STA67	T STA91
19	BR/Y	INB43	INB67	INB91	19	BR/Y	R STA43	R STA67	R STA91
45	Y/S	INA44	INA68	INA92	45	Y/S	T STA44	T STA68	T STA92
20	S/Y	INB44	INB68	INB92	20	S/Y	R STA44	R STA68	R STA92
46	V/BL	INA45	INA69	INA93	46	V/BL	T STA45	T STA69	T STA93
21	BL/V	INB45	INB69	INB93	21	BL/V	R STA45	R STA69	R STA93
47	V/O	INA46	INA70	INA94	47	V/O	T STA46	T STA70	T STA94
22	O/V	INB46	INB70	INB94	22	O/V	R STA46	R STA70	R STA94
48	V/G	INA47	INA71	INA95	48	V/G	T STA47	T STA71	T STA95
23	G/V	INB47	INB71	INB95	23	G/V	R STA47	R STA71	R STA95
49	V/BR	INA48	INA72	INA96	49	V/BR	T STA48	T STA72	T STA96
24	BR/V	INB48	INB72	INB96	24	BR/V	R STA48	R STA72	R STA96
50	V/S	N.C.	N.C.	N.C.	50	V/S	N.C.	N.C.	N.C.
25	S/V	N.C.	N.C.	N.C.	25	S/V	N.C.	N.C.	N.C.

**Table 1 - Background Music Options**

Background Music			
Stations	Main Board SW1	Switch OFF	Switch ON
1-6	SW1-1	No BGM group 1	BGM group 1
7-12	SW1-2	No BGM group 2	BGM group 2
13-18	SW1-3	No BGM group 3	BGM group 3
19-24	SW1-4	No BGM group 4	BGM group 4
Expansion Board 1:			
25-30	SW1-1	No BGM group 5	BGM group 5
31-36	SW1-2	No BGM group 6	BGM group 6
37-42	SW1-3	No BGM group 7	BGM group 7
43-48	SW1-4	No BGM group 8	BGM group 8
Expansion Board 2:			
49-54	SW1-1	No BGM group 9	BGM group 9
55-60	SW1-2	No BGM group 10	BGM group 10
61-66	SW1-3	No BGM group 11	BGM group 11
67-72	SW1-4	No BGM group 12	BGM group 12
Expansion Board 3:			
73-78	SW1-1	No BGM group 13	BGM group 13
79-84	SW1-2	No BGM group 14	BGM group 14
85-90	SW1-3	No BGM group 15	BGM group 15
91-96	SW1-4	No BGM group 16	BGM group 16

**Table 2 - Numbering Plan**

2 Digit Zone Access:

Dial Code	Function
10..33	Handsfree speakers - Main board
34..57	Handsfree speakers - Expansion board 1
58..81	Handsfree speakers - Expansion board 2
82..99 *	Handsfree speakers - Expansion board 3 (1st 18 sta.)
**** during hf to zone 30,31,32, or 33	Operate relay for longer of 2.5 seconds or duration of second press, or until attendant releases hf.

(Station 1 = code 10, station 2 = code 11, and so on)

3 Digit Zone Access:

Dial Code	Function
101..124	Handsfree speakers - Main board
125..148	Handsfree speakers - Expansion board 1
149..172	Handsfree speakers - Expansion board 2
173..196	Handsfree speakers - Expansion board 3
**** during hf to zone 121, 122, 123, or 124	Operate relay for longer of 2.5 seconds or duration of second press, or until attendant releases hf.

(Station 101 = code 101, station 102 = code 102, and so forth)

\*If the 2-digit dialing option is enabled in a system with 3 expansion units, the maximum number of zones is 90.

The 3-digit dialing option must be enabled to access 96 zones.

**Table 3 - Page Dial Codes:**

Dial Code	Groups															
	Main Board				Expansion 1				Expansion 2				Expansion 3			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
#10 external all call																
#11 system all call																
#12																
#13																
#14																
#15																
#16																
#17																
#60	Example: #60 + 72 + 74 + ... + * <i>Serial Group Call - User may select any combination of group codes during dialing</i>															
#61																
#62																
#63																
#64																
#65																
#66																
#67																
#68																
#70																
#71																
#72																
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#76																
#77																
#78																
#79																
#80																
#81																
#82																
#83																
#84																
#85																

- Group 10 (External All Call) is not a valid group selection when using these dial codes

NOTE: For Group selection and Background Music Programming:

Group 1	Stations 1 – 6
Group 2	Stations 7 – 12
Group 3	Stations 13 – 18
Group 4	Stations 19 – 24
Group 5	Stations 25 – 30
Group 6	Stations 31 – 36
Group 7	Stations 37 – 42
Group 8	Stations 43 – 48
Group 9	Stations 49 – 54
Group 10	Stations 55 – 60
Group 11	Stations 61 – 66
Group 12	Stations 67 – 72
Group 13	Stations 73 – 78
Group 14	Stations 79 – 84
Group 15	Stations 85 – 90
Group 16	Stations 91 - 96

## TROUBLESHOOTING CHART

<i><b>Problem</b></i>	<i><b>Corrective Action</b></i>
No system operation.	<ul style="list-style-type: none"> <li>• Verify AC voltage is present at the receptacle.</li> <li>• Check the fuse located on the bottom of the unit. If blown, replace with a 1 amp, 250 VAC fuse.</li> <li>• Verify that 25 pair cable connectors are completely plugged into circuit board connectors.</li> <li>• Refer to Figure 1 and verify all connections.</li> </ul>
No paging at speaker.	<ul style="list-style-type: none"> <li>• Refer to Figure 1 and adjust volume.</li> </ul>
Paging at speaker but no reply from speaker.	<ul style="list-style-type: none"> <li>• Refer to Figure 1 and adjust volume.</li> </ul>
No system ringing when call button is pressed.	<ul style="list-style-type: none"> <li>• Verify all associated connections.</li> </ul>
Background music not heard at speakers.	<ul style="list-style-type: none"> <li>• Verify connection of speakers and background music input.</li> </ul>
No dial tone.	<ul style="list-style-type: none"> <li>• Refer to dip switch settings.</li> </ul>

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Valcom, Inc. warrants its products to be free from defects in materials and workmanship under conditions of normal use and service for a period of one year from the date of shipment. The obligation under this warranty shall be limited to the replacement, repair or refund of any such defective device within the warranty period, provided that:

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3. the product has not been altered in any way or repaired by others and that factory sealed units are unopened (A service charge plus parts and labor will be applied to units defaced or physically damaged),
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5. all units 'out of warranty' are subject to a service charge. The service charge will cover minor repairs (Major repairs will be subject to additional charges for parts and labor).

**This warranty is in lieu of and excludes all other warranties, expressed or implied, and in no event shall Valcom, Inc. be liable for any anticipated profits, consequential damages, loss of time or other losses incurred by the buyer in connection with the purchase, operation or use of the product.**

This warranty specifically excludes damage incurred in shipment. In the event a product is received in damaged condition, the carrier should be notified immediately. Claims for such damage should be filed with the carrier involved in accordance with the F.O.B. point.

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FAX: (905) 456-2269

## TECHNICAL ASSISTANCE

When trouble is reported, verify there are no broken connections. Assistance in troubleshooting is available from the factory. Call (540) 563-2000 and ask for Technical Support, or call (540) 767-1555 for Valcom 24-hour Automated Support or visit our website at <http://www.valcom.com>.

Valcom equipment is not field repairable. Valcom, Inc. maintains service facilities in Roanoke, VA. Should repairs be necessary, attach a tag to the unit clearly stating company name, address, phone number, contact person, and nature of the problem. Send the unit to:

**Valcom, Inc.  
Repair & Return Dept.  
5614 Hollins Road  
Roanoke, VA 24019-5056**

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