





A Division of SCARECROW BIO-ACOUSTIC SYSTEMS LIMITED

INSTALLATION INSTRUCTIONS LVC 025 and LVC 100 SERIES LOUDSPEAKER CIRCUIT VOLUME CONTROLS

INSTALLATION INFORMATION

LVC025 and LVC100 are pre-adjusted to operate without change as simple 2 wires in, 2 wires out volume controls between amplifier and loudspeaker/s.

Connect the amplifier to inputs: A and B (B-1/P+A). Connect the loudspeaker/s to: +O/P- (output).

Now, some notes for further use:

• 25w and 100w versions are installer adjustable for either remote relay volume override (volume restoration) or amplifier/TRIWIRE TW1010 sourced, 3 wire, override options.

PLEASE REMOVE THE PLUG-ON INTERFACE CONNECTORS TO REVEAL CONNECTION IDENTIFICATION.

ALWAYS CONNECT LOUDSPEAKERS TO O/P PINS, [- O/P +]

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A) ADJUSTMENT FOR YOUR NEEDS; APPLICABLE TO BOTH LVC 025 & LVC 100 MODELS

EX-FACTORY ADJUSTED FOR OPTION 1 (i) BELOW

1. SINGLE AMPLIFIER FOR PAGING AND PROGRAMME:

i) BASIC OPERATION OR REMOTE 24V OVERRIDE USE

a) if applicable, connect 24v d.c., active on paging override, observing polarity to energise the in-built relay [- RLY +]
b) connect amplifier output to INPUT A & INPUT B, [B - I/P +A]
c) check positions of RED, BLUE AND BLACK 'jumpers':
RED (PAGING LEVEL) : MAX :LK1 (HI) (LK2, LK3 intermediate levels)

i MIN :LK4 (LO)

BLUE (OVERRIDE MODE) : X-Z, LK5
BLACK (OPERATING MODE) : LK6, LK7

ii) 3 WIRE SOURCED PAGING OVERRIDE USE

a) connect amplifier output to INPUT A [I/P+A] & 'C'
b) CONNECT OVERRIDE OUTPUT TO INPUT B [B-I/P] (see your amplifier manual to verify connecting, it may differ between manufacturers; refer to diagram included overleaf).
c) check positions of RED, BLUE & BLACK jumpers:
RED (PAGING LEVEL) : inoperative in this use.
BLUE (OVERRIDE MODE) : inoperative in this use.
BLACK (OPERATING MODE) : remove and discard LK6, LK7

2. DUAL AMPLIFIER USE; one for PAGING/ALARM, one for PROGRAMME

a) connect PAGING amplifier to ALARM pins [-ALM+]

b) connect PROGRAMME amplifier to INPUT A & INPUT B, [B-I/P+A]

c) check positions of RED, BLUE & BLACK jumpers:

RED (paging level) : inoperative in this use.

BLUE (override mode) : Z-Y, LK5

BLACK (operating mode) : remove LK6

d) connect 24v d.c., active on paging override, observing polarity, to energise the inbuilt relay.[-**RLY+**] When energised the PAGING/ALARM amplifier will be connected to the 'SPEAKER' circuit in place of the PROGRAMME amplifier.



CIRCUIT DIAGRAM SHOWS ALL AVAILABLE FEATURES; NOT ALL OF THESE ARE APPLICABLE TO EACH VOLUME CONTROL TYPE. PLEASE REFER TO THE INTRODUCTORY PARAGRAPH.

JUMPER POSITIONS & CIRCUIT BOARD DIMENSIONS LVC 025 & LVC 100 ONLY



RATED INPUT: MAXIMUM LOADS:	LVC 100: 100w, 100v LVC 025: 25w, 100v See Introductory Note, page 1, for facilities. LVC 100: 120w LVC 025: 30w
MAXIMUM INPUT	
VOLTAGE:	100v, R.M.S. 140v Peak (intended for use on 50/70/100v line distribution systems).
MINIMUM NOMINAL	
INPUT VOLTAGE:	50v
CONTROL ATTENUATION:	60dB, in 12 steps, including off.
PAGING ATTENUATION:	12dB, in four steps (relay function only)
OPERATING	
FREQUENCY RANGE:	150Hz through 15KHz except LVC 300 which operates to 40Hz
OVERRIDE RELAY:	24dc, other voltages on request.
(not applicable to LVC 010)	Will operate over the voltage range 75% to 120%.
	Consumption :400mW, LVC 025 & LVC 100
	:900mW
OPERATING IN SYSTEMS:	 If applicable, relay is diode suppressed; note polarity. Not intended for use in accentuated bass music systems:
	attenuation recommended below 150Hz on LVC 025 &
	LVC 100
TERMINATIONS:	Push-on Screw terminations, fixing to p.c.b. header pins.
	Maximum cable size 2.5mm ² ; stripping length 6mm.



COMMUNICATION TECHNOLOGY PRODUCE A VERSATILE TRIWIRE OVERRIDE SYSTEM (TW1010) INCORPORATING THE CIRCUIT ABOVE AND ADDITIONAL SPEECH / MUSIC LOCK-OUT ZONES

Useful points for system engineering: LVC 025 & LVC 100 only

1. By removing the RED link, paging level, paging can be barred from single amplifier application 1.(i).

2. By removing the RED link and wiring a 1 pole 6 way switch, to be front panel mounted, in it's place it is possible to provide user adjustable paging level; just wire each LK, non shorted side (see under PC), to one pole of the switch in sequence and the common (rotary) contact to the shorted side of LK 1-4. Switch action recommended: [OFF, 0, -3, -6, -12, OFF].

3. By using the alarm input [-ALM+], LOCAL/REMOTE AMPLIFIER facilities can be obtained - e.g. 'HOUSE' SYSTEM/BANQUETING (local) SYSTEM. Consult us if you need help; requires 24v for relay operation.

4. Multiple programme selection for this volume control can be obtained by using [P.SEL.10] 10 way programme selector. See our TECHNICAL LEAFLET.