



A Division of SCARECROW BIO-ACOUSTIC SYSTEMS LIMITED

INSTALLATION INFORMATION

VOS 600 : VA/PA SYSTEM OVERRIDE MODULE

[CON] REFERENCES APPLY TO CONNECTIONS TO AND FROM PCB 248

For use in multiple VA/PA system emergency override installations, VOS 600 can be powered from a 235v AC supply [CON 1] or from a 24v DC source.[CON 2]

The VOS 600 voice/tone operated switch is designed to allow a main **(master)** public address system, for example in a shopping complex, to override individual music/public address systems in the numerous shop premises within the complex in the event of an emergency, or the need for a general announcement. One VOS 600 is required for each **MUSIC/PA SYSTEM**.

The main **(master)** public address system will require a 100v line signal/audio EMERGENCY outlet, used in emergency or where a general announcement is to be made to all associated **MUSIC/PA SYSTEM** on the site.

On detection of an emergency signal from the main **(master)** public address system, a relay will ensure that the local **MUSIC/PA SYSTEM** is disconnected from its loudspeakers and that these are connected to the main **(master)** public address emergency line. Installation is simple; the main **(master)** public address system 100v line is 'looped' into each individual public address VOS 600 [CON 3].

VOS 600 is provided with an option of the local **MUSIC/PA SYSTEM** override to be set to 'normal' or 'failsafe', the latter meaning that, in the event of local power failure, any general announcement will be given full access to the **MUSIC/PUBLIC ADDRESS** to which it is connected. Referring to the circuit diagram **CCT248**, this option is selected by LKI, a two position 'jumper' : NORMAL or FAILSAFE on PCB248. VOS600/Man

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In NORMAL, Relays 1&2 will be energised for local MUSIC/PA SYSTEM override; in FAILSAFE Relays 1&2 will normally be energised and de-energised for PA override.

RELAY 1 – RLY 1 [CON 4]

This 2 pole changeover relay is used to provide switchover from the local **MUSIC/PA SYSTEM** to the main (**master**) public address system.

RELAY 2 – RLY 2 [CON 4]

This 2 pole changeover relay is fitted with 3 Amp fuses so that it can be used to switch AC supplies, perhaps to provide a switchable power source for additional lighting or a siren alarm. Use 'NO' (normally open when de-energised) and 'NC' (normally closed when energised) as dictated by your selection of VOS 600 FAILSAFE or NORMAL mode.

CONNECTION TO THE LOCAL 100v LINE PA SYSTEM LOUDSPEAKERS

Connect the local loudspeaker network pair to 'C' on both RLY 1 changeover pair [CON 4]

Connect the main (**master**) public address EMERGENCY pair, 100v line, to 'NO' on both RLY 1 changeover pair. This will mean that, when energised, the local **MUSIC/PA SYSTEM** will be connected to the main (**master**) public address system EMERGENCY circuit.

If the EMERGENCY pair is connected to 'NC' on RLY 1 changeover pair then the local **MUSIC/PA SYSTEM** will be connected to the local **MUSIC/PA SYSTEM** loudspeakers when RLY 1 is de-energised.

SPECIAL NOTES

- A. Note that wiring options on RLI and RL2 depend on the option selected for VOS 600 operating mode, NORMAL and FAILSAFE.
- B. It is also possible to use VOS 600 to switch at 600 ohm 0dBm line level in which case each VOS 600 will be connected to a **PRIORITY OVERRIDE INPUT** on each local **MUSIC/PA SYSTEM**.
- C. VRI on p.c.b. 248 should be adjusted such that an emergency signal from the main (**master**) public address system will promptly override the local **MUSIC/PA SYSTEM**.

YOUR ROUTES TO PROBLEM SOLVING

For installation advice, technical assistance:

E-MAIL : sales@communication-technology.co.uk

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In the unlikely event of a Service requirement

Please dispatch your product to:

COMMUNICATION TECHNOLOGY

Service Unit

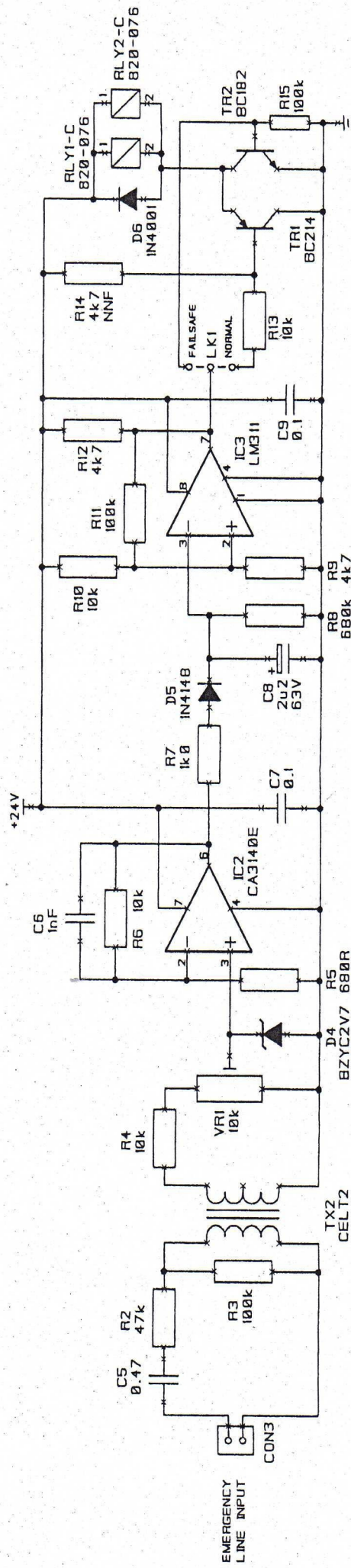
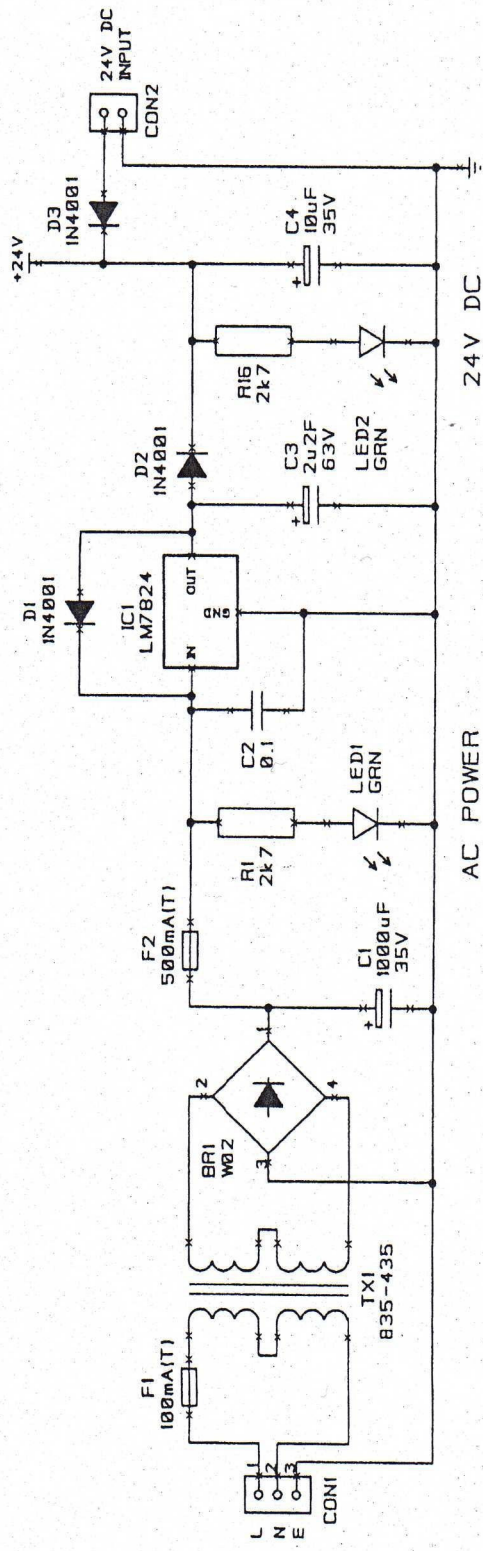
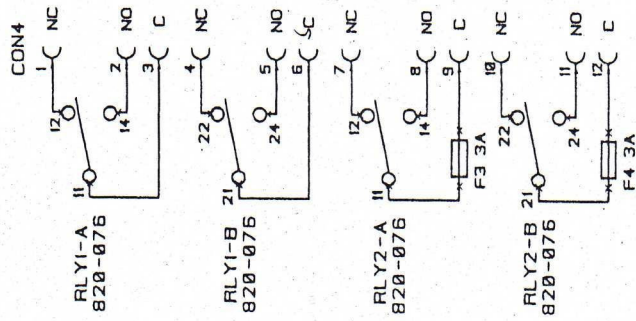
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NNF - NOT NORMALLY FITTED

Drawn	Iss	Date	Communication Technology PO Box 66, Uckfield, Sussex, TN22 3ZR.
MJB	2	08.01.09	Title VOS 600 100V LINE OVERRIDE UNIT
MJB	1	11.12.08	Dwg no. CCT248



COMPONENT IDENT