DISCONS

NLX NOISE LIMITER INSTALLATION GUIDELINES

ALWAYS CONTACT A COMPETENT ELECTRICIAN IF YOU HAVE ANY DOUBTS ABOUT ELECTRICAL WIRING.

All wiring must be installed in accordance with IEE regulations and it is assumed that any persons attempting to fit the NLX are familiar with electrical wiring protocols.

Refer to the NLX manual for connection details.

1. **Installation**
   Find a suitable position for the NLX main unit and fix securely using the screw holes provided. This will usually be at a height of 2m or more above floor level. For venues where a 2 gang socket outlet is sufficient the power supply can be obtained by replacing a socket on the ring main with a 45amp switch. In this case the NLX should be sited above the socket for ease of wiring. (Take care when fixing – there may be concealed cables.) Where a number of sockets must be controlled the main unit can be sited near to the mains fuse board (or any other convenient location) in order to minimise the amount of mains wiring. In this case the optional remote indicator should be fitted within sight of the stage area.

2. Find a suitable position for the microphone unit, avoiding locations that are too close to the noise source or where other sounds such as audience clapping etc could be picked up. In a typical venue, with the stage area at one end, the microphone should be positioned centrally, away from the stage at a distance roughly equal to the stage width. (See diagram below.) If there is more than one source of noise the microphone should ideally be positioned equidistant from each source. The microphone must be connected to the main unit using shielded cable with the outer screen connected to the M2 terminal (the screen can be connected to either terminal at the microphone end). We do not recommend using a microphone cable of length greater than 15 metres. If this is unavoidable a very high quality cable should be used. Avoid running the cable alongside any mains cables as this will cause unstable operation of the unit.

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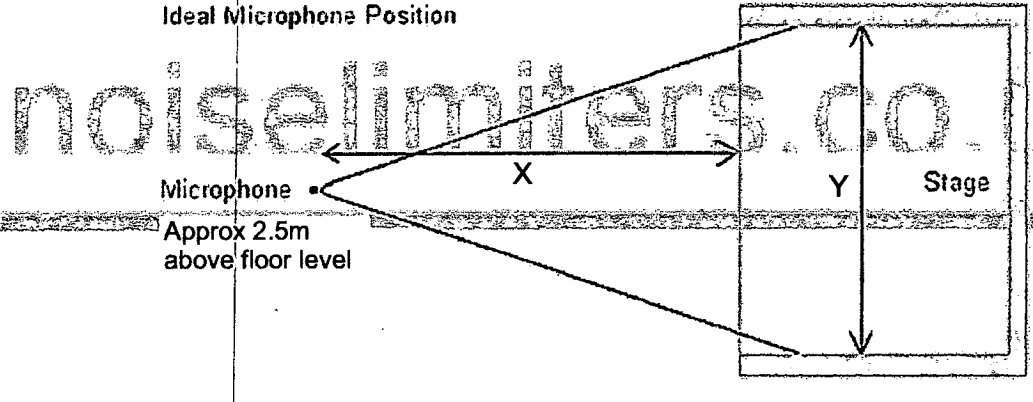

Distance X should be roughly equal to distance Y but not more than 3 metres

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The remote indicator (optional) should be situated where it can be seen from the stage and can usually be positioned adjacent to the microphone. For ease of fixing double sided sticky pads can be used to avoid damaging the case. Connect the indicator unit to the main unit using 4 core cable which can be clipped alongside the microphone cable. It is not important which colour cores are used as long as the cores are connected in the same order at both ends.

3. Fit a 13 amp socket outlet at a suitable height (approximately 600mm above floor level) and connect to the 2CN2 output connector at the main unit using the correct grade cable.

4. Finally, ENSURING THAT THE MAINS POWER HAS BEEN SWITCHED OFF, connect the 2CN1 terminals at NLX to the mains using the correct grade cable. If the NLX is not wired back to the consumer unit on its own separately fused circuit a 40 amp switch should be used to provide isolation.

All surface mounted mains cables should be protected using conduit or mini trunking.

It is important to ensure that musicians / DJs connect their equipment to the socket outlet which is controlled by the sound limiter and it is advisable to blank off any other power sockets in the vicinity of the stage to avoid confusion.

5. **Adjustment**
   Take care when carrying out adjustments inside the NLX as live parts are exposed once the cover is removed.

   A suitable noise source will be required with a sound level sufficiently high to carry out the following procedure. Standing outside of the venue, one person monitors the sound level (preferably using a sound pressure level meter). Another person inside the venue adjusts the volume until the maximum permissible level outside is just exceeded. (This may need to be agreed with the local environmental health office but is usually around 45dB at the perimeter of the nearest noise sensitive premises or 10dB above the background noise level. The latest guidelines from many Environmental Health Departments state only that the music should be inaudible inside the nearest noise sensitive premises.) Referring to the NLX manual, adjust VR1 until the unit triggers. (We do not recommend adjusting VR2, VR3 or VR5, the factory settings should be correct for most applications.) Connect the sound source to the noise limiter controlled socket and with the keyswitch in the active position, ensure that power is disconnected from the sound source when the maximum permissible sound level is exceeded for more than ten seconds.

Please Note. The timer LEDs T1 to T4 on the front of the NLX are NOT a sound level meter. They indicate the length of time for which the preset sound level has been exceeded. Normally the OK light should be on or flashing. When the sound level becomes higher than that set using VR-1 the first timer LED (T1) will light. Each subsequent LED (T2 to T4) will light after approximately 2 seconds. The Resetting LED lights when power is disconnected. The complete process takes around 10 seconds. If at any time during this process the sound level falls below the trigger threshold the whole sequence will begin again.

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