

CONCOURSE Q SERIES

INSTRUCTION BOOKLET



CONCOURSE Q SERIES SUBWOOFER/Q SUB

FOR THE CLOSEST APPROACH TO THE ORIGINAL SOUND

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SAFETY INSTRUCTIONS

Safety First!

1. Please read this manual fully before installing and operating this product.
2. Retain a copy of this manual for future reference.
3. Comply with all warning labels and instructions.
4. Do not attempt the installation of this equipment unless you are qualified to do so.
5. Protect your hearing from high sound pressure levels.

Rigging and Suspension

The rigging, suspension or mounting of these products can expose the installer and members of the public to serious health risks and even death.

UNDER NO CIRCUMSTANCES ATTEMPT TO RIG, SUSPEND OR OTHERWISE MOUNT THIS EQUIPMENT UNLESS YOU ARE FULLY QUALIFIED AND CERTIFIED TO DO SO BY RELEVANT LOCAL, STATE AND NATIONAL AUTHORITIES. ALL RELEVANT SAFETY REGULATIONS MUST BE FOLLOWED. IF YOU ARE NOT PROPERLY QUALIFIED OR DO NOT KNOW OF PERTINENT REGULATIONS, CONSULT QUALIFIED PERSONNEL FOR ADVICE AND ASSISTANCE.

Limited Liability

QUAD Industrial assumes no liability whatsoever for any damage or loss, either direct or consequential arising from the installation and use of these products. Liability is limited to replacement of product or refund, at the QUAD Industrial's discretion. Your rights to compensation may vary by territory; consult with your local QUAD Industrial office or distributor.

Warranty & Service

These products are designed to be used as specified, and are warranted to be free from defects in materials or workmanship. Warranty terms and conditions vary by territory. Please contact your local QUAD Industrial sales office or distributor for complete details. Under no circumstances should you attempt to repair these products. Doing so may limit or void warranty coverage.

PRODUCT DESCRIPTION

The Concourse QSUB is a high-performance compact subwoofer system designed to augment the bass response of any QUAD Industrial Q Series, C Series or R Series system. Built around an acoustically inert MDF enclosure, the QSUB delivers frequency response down to 35Hz. Built around a genuine QUAD long-throw woofer with integral passive crossover, the QSUB integrates easily into any audio system.

CONCOURSE QSUB

Compact dual voice-coil subwoofer designed for corner installation. Features a heavy duty 10" woofer designed specifically for subwoofer operation and includes an internal crossover with filtered high-pass outputs to feed full range speakers. The enclosure offers 12 threaded inserts for rigging applications. A steel mounting bracket and hardware are included. Available only in black:

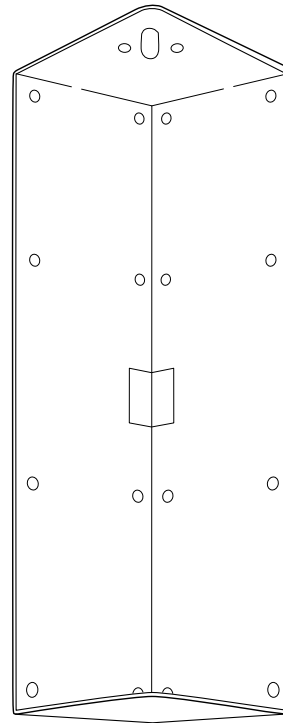
- **Concourse QSUB** – Black, Dual 125 Watt 8Ω voice coils
- **Concourse QSUB-W** – White, Dual 125 Watt 8Ω voice coils

PRODUCT FEATURES

The Concourse QSUB enclosure is designed for installation in a corner, where the boundary effect of the mounting surfaces will serve to enhance the speaker's output level. The speaker is supplied with a unique corner-mount bracket which permits close installation into a corner between two wall surfaces or between a wall and ceiling surface. In addition, to facilitate other mounting needs, the QSUB is fitted with 12 M8 threaded inserts.

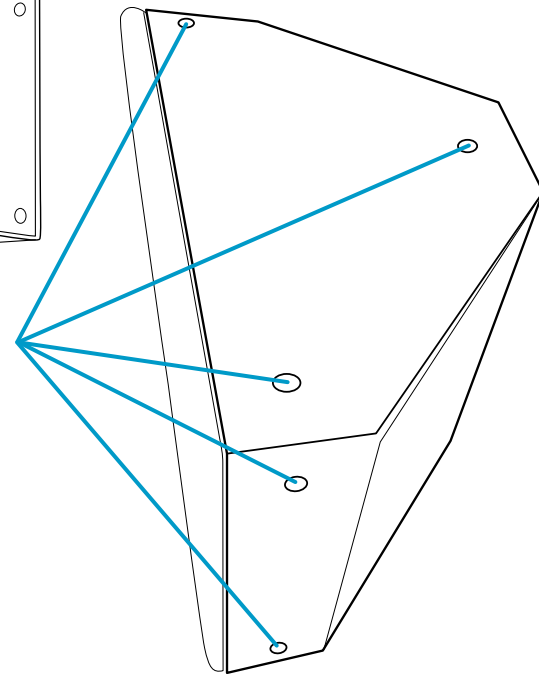
The QSUB features a genuine QUAD long-throw 10" woofer designed specifically for this application. This unique driver is equipped with two 8Ω voice coils that can be connected to the

L and R channels of a power amplifier for true stereo subwoofer operation. For mono applications the voice coils can be paralleled to present a 4Ω impedance.



The Q SUB is supplied with a unique corner-mount bracket which permits close installation into a corner between two wall surfaces

Threaded Rigging Points



The QSUB includes an internal passive crossover allowing for direct connection to a full range amplifier. The crossover filters signals sent to the subwoofer to below 150Hz, ensuring maximum impact with minimal distortion. The crossover also offers high pass filtered outputs that may be connected directly to low-impedance full range speakers. This permits the creation of very cost-effective subwoofer satellite systems.

Wiring connections are made via two terminal strips located on the rear of the cabinet. Terminals are provided for the connection of two amplifier channels (L / R) for stereo operation. In addition, two high-pass outputs are provided to feed satellite speakers. A detachable front grille conceals the driver and is secured with screws on either side of the enclosure.

INSTALLATION

There are several different installation options available for the QSUB subwoofer. Please review all of the installation options to determine the one best suited to the site conditions and performance objectives.

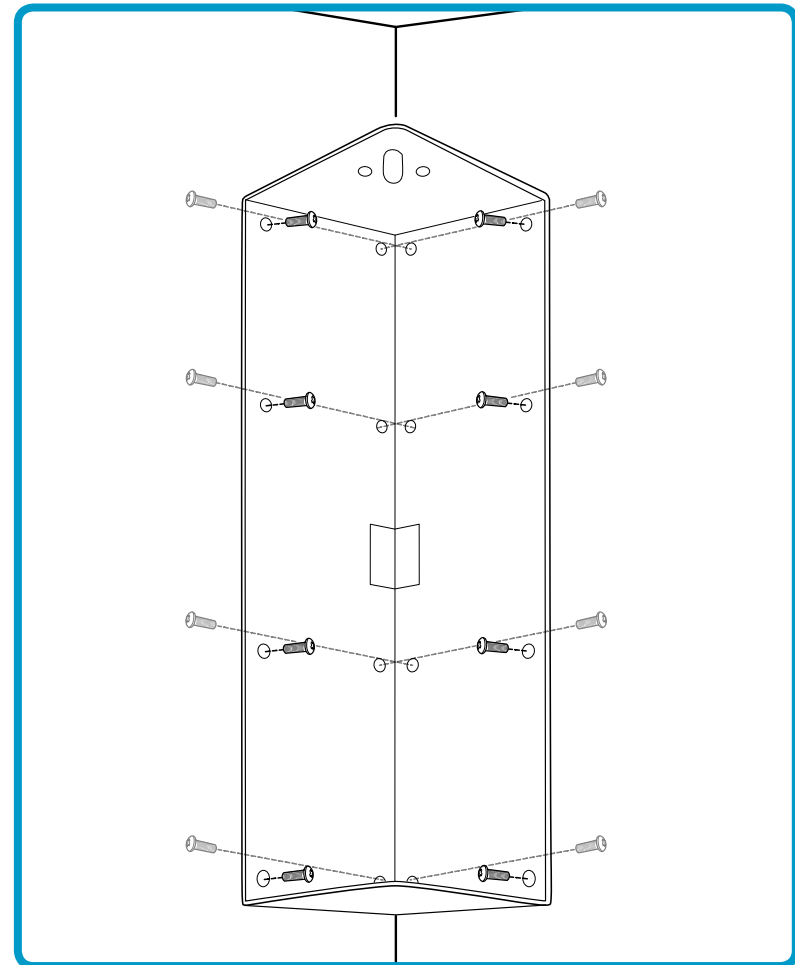
Step 1

Identify the location where the speaker will be installed and determine if the wall or ceiling has the structural integrity to support the speaker. If unsure, consult with a qualified rigger or structural engineer before installation.

Step 2

Install the bracket to wall using suitable fasteners. The accompanying illustration (right) shows the bracket mounted vertically in a corner between two walls. This is the preferred mounting method for the QSUB. Alternately the bracket may be turned on its side and mounted in the corner between the ceiling and the wall. It is not recommended to use this bracket when it is connected to only one surface.

(Another installation option is to suspend the QSUB in free space by rigging to the threaded mounting points. There are 12 threaded mounting points in total, with three each on the top and bottom of the enclosure, two on either side and two on the rear. Rigging must only be undertaken by certified professionals using proper materials and techniques. All installations must use a minimum of three points when the speaker is rigged.)



Step 3

Remove the two screws on the top and bottom of the cabinet at the rear.

Step 4

Place the speaker in close proximity to the bracket and terminate the wiring. Do this before installing the speaker to ensure access to the rear panel.

Step 5

Lift the QSUB into the bracket, and insert the rubber friction washers between the cabinet and the bracket, then install the supplied screws and lock washers. Tighten firmly, taking care not to overtighten.

Step 6

Ensure that seismic restraint cable is firmly attached to both the loudspeaker and a suitable anchor point on the building structure.

CONNECTIONS

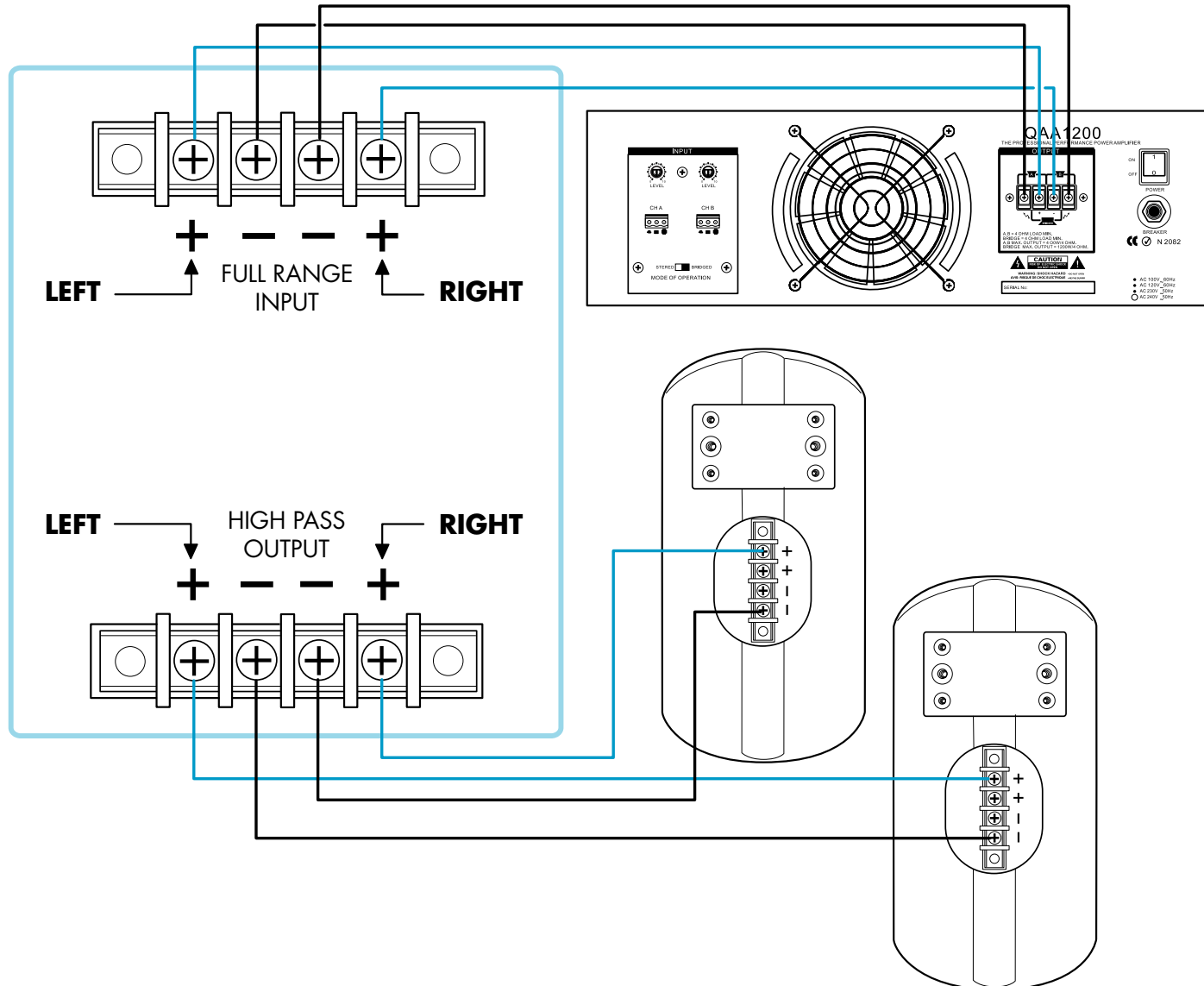
The Concourse QSUB is fitted with a unique dual voice-coil driver and a dual-channel passive crossover. This permits the subwoofer to be connected to both channels of a stereo amplification system, ensuring that Low Frequency signals from both channels are reproduced without the need for a second subwoofer.

Before beginning the installation you must first calculate the power required to drive the QSUB and any connected satellite speakers. The QSUB voice coils are each rated at 125 watts at 8Ω; requiring an amplifier rated from 100 watts to 300 watts per channel. Add to this requirement the nominal power that will be required to drive the satellite speakers. Determine the length of cable that will be used to connect the QSUB to the power amplifier.

Stereo Plus Satellites

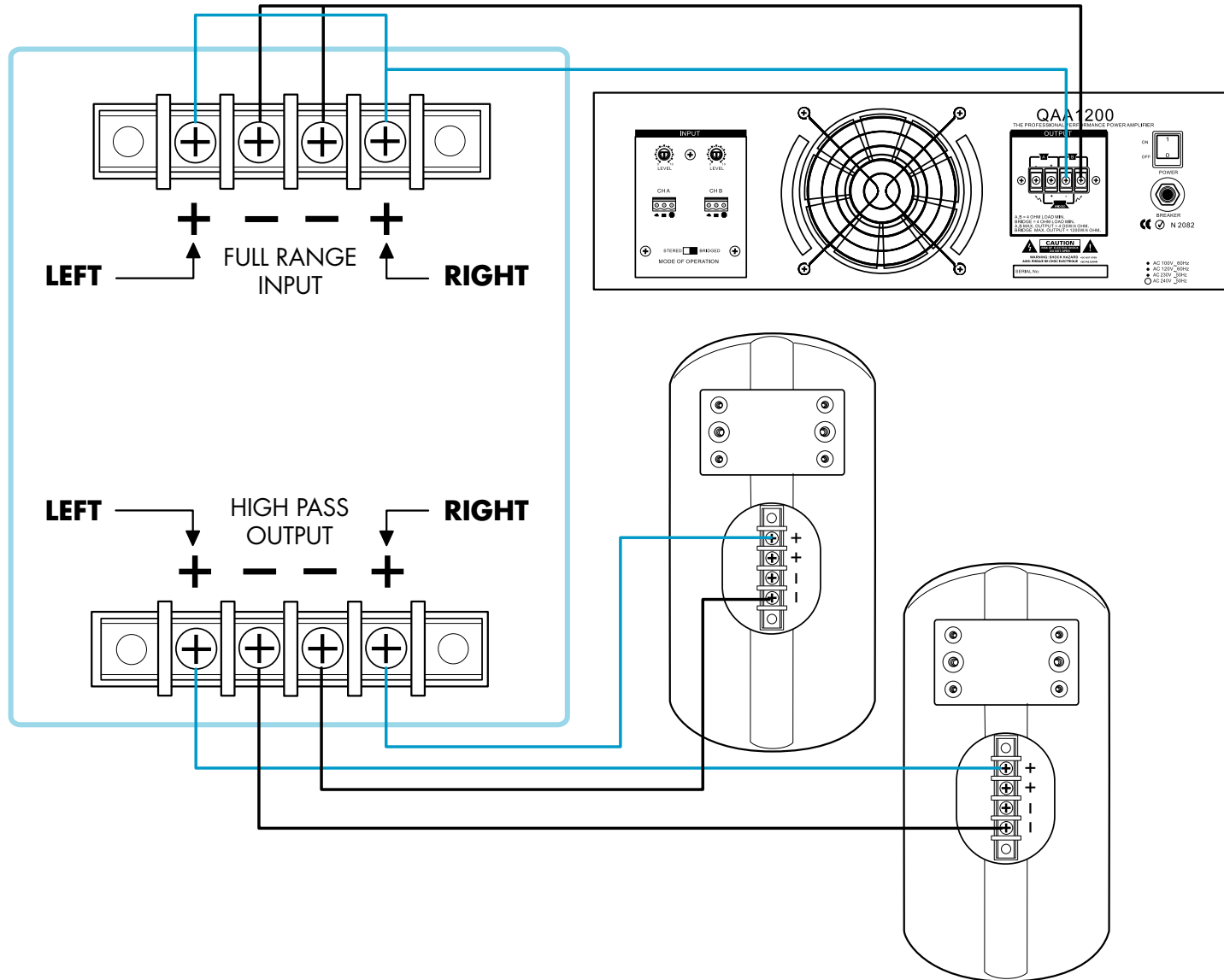
Connect the QSUB to the power amplifier using two 2-conductor cables, observing the polarity markings on both the speaker and the power amplifier. Terminate the cables to the Full Range Input terminal block ensuring that the wires are clamped firmly and that there are no stray wire strands that might cause a short circuit.

Connect the satellite speakers to the High Pass Output terminal block observing polarity markings. Ensure that the correct speaker is wired to the Left and Right outputs.



Mono Subwoofer Plus Satellites

It is not necessary to drive the QSUB with two separate amplifier channels if the system is reproducing a mono signal. For mono applications simply connect one amplifier channel to both Left and Right Full Range Input terminals in parallel. Note that this method places the two 8Ω voice coils in parallel, resulting in a net system impedance of 4Ω. Ensure that the connected amplifier is rated for a 4Ω load.



Subwoofer Only Applications

The QSUB may be used as an add-on subwoofer with a variety of systems, even without satellite speakers connected. Typically in 70/100V applications, the full range speakers are driven by a constant-voltage amplifier, while the QSUB is driven by a separate amplifier. No external electronic crossover is required, permitting the use of nearly any suitable power amplifier.

COMPLIANCE

This product is in compliance with CE directives and bears the CE mark. For detailed information on specific directives please contact your local QUAD Industrial sales office or distributor.

SPECIFICATIONS

CONCOURSE Q SERIES	QSUB
Power Amplifier	2 x 125W
WATTS RMS:	2 x 250W 2 x 500W
AC Power:	N/A
Frequency Response: (+/-10dB)	35Hz–420Hz
Frequency Response: (+/-3dB)	42Hz–350Hz
Sensitivity (@2.83V):	82dB
Coverage (H x V):	N/A
Directivity (DI) (H x V):	N/A
Impedance:	Left 8Ω / Right 8Ω
Regulatory Approvals: (9UL, CE)	CE
Transducers:	
LF Driver Size	10" Long Throw
HF Driver Size	N/A
Crossover Frequency:	150Hz
Enclosure Material:	Wood (MDF)
Connector Type:	2 x Terminal strip
Dimensions: (H x W x D)	585 x 372 x 316mm 23" x 14.6" x 12.4"
Net Weight:	14.2kg. 31.2lbs

* Features, details & specifications are subject to change without notice

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