

CONCOURSE Q SERIES

INSTRUCTION BOOKLET



MODELS Q6A & Q8A

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 Q6A and Q8A are Active two-way high performance speaker systems designed for sound reinforcement, audio-visual and music delivery applications. They combine quality transducers with high efficiency dedicated power amplifiers to deliver the highest possible performance in lightweight and durable ABS enclosures. Each model comes complete with mounting brackets and hardware, facilitating easy installation.

Concourse Q6A

The Concourse Q6A is an active, two-way speaker system consisting of a 6.5" low-frequency driver and a 1" dome tweeter combined with a 50 watt, high-efficiency power amplifier. Be aware of the position of the voltage selection switch before connecting the power cord and be sure that the correct voltage is selected before powering up the unit. Each unit is supplied with a wall mounting bracket. There are two versions available:

- **Concourse Q6AW** – White color
- **Concourse Q6AG** – Gray color

Concourse Q8A

The Concourse Q8A is an active two-way speaker system consisting of an 8" low frequency driver and a 1" dome tweeter combined with a 50 watt high-efficiency power amplifier. Each unit is supplied with a wall mounting bracket. There are two versions available:

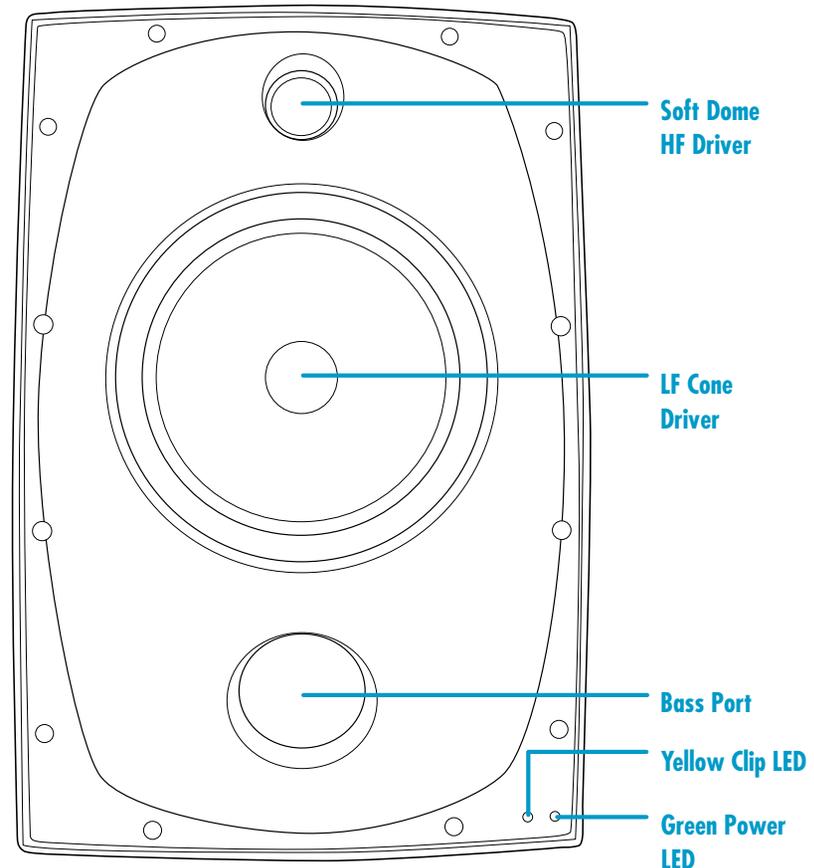
- **Concourse Q8AW** – White color
- **Concourse Q8AG** – Gray color

NOTE: Power cords supplied with Q6A and Q8A models vary by country of sale. Be aware of the position of the voltage selection switch before connecting the power cord and be sure that the

correct voltage is selected before powering up this unit. Please check with your QUAD Industrial sales office or local distributor to ensure you have the correct version.

PRODUCT FEATURES (Q8A shown)

The Q6A and Q8A are fitted with a removable metal grille finished with an opaque cloth backing. Two LEDs in the lower right front of the cabinet indicate power status (Green) and Amplifier Clip (Yellow).

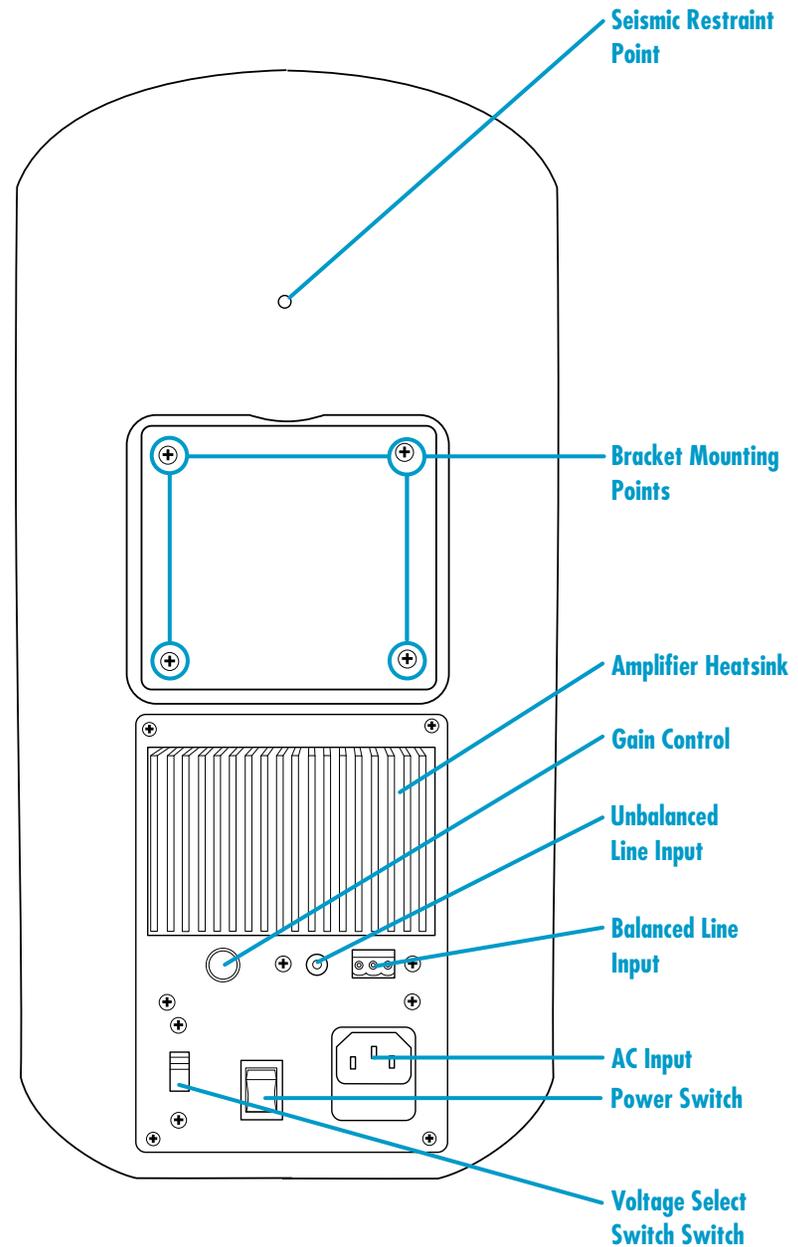


Q6A and Q8A models include a switchable voltage power supply that accepts either 110-120VAC or 220-240VAC line power. Selection is made through the two-position Voltage Select Switch on the rear panel. In addition there is an IEC AC Input socket and two position rocker Power Switch.

Both models are fitted with a 50 watt high efficiency power amplifier with external heatsink. Ensure that the heatsink is not obstructed and that adequate airflow can circulate around it to ensure safe and reliable operation.

The amplifier accepts either balanced or unbalanced signals, through a detachable Phoenix-style connector or a single RCA connector. Nominal sensitivity of the Balanced input is +4dBu and -10dBu for the unbalanced input. A rotary Gain Control is provided to attenuate the volume.

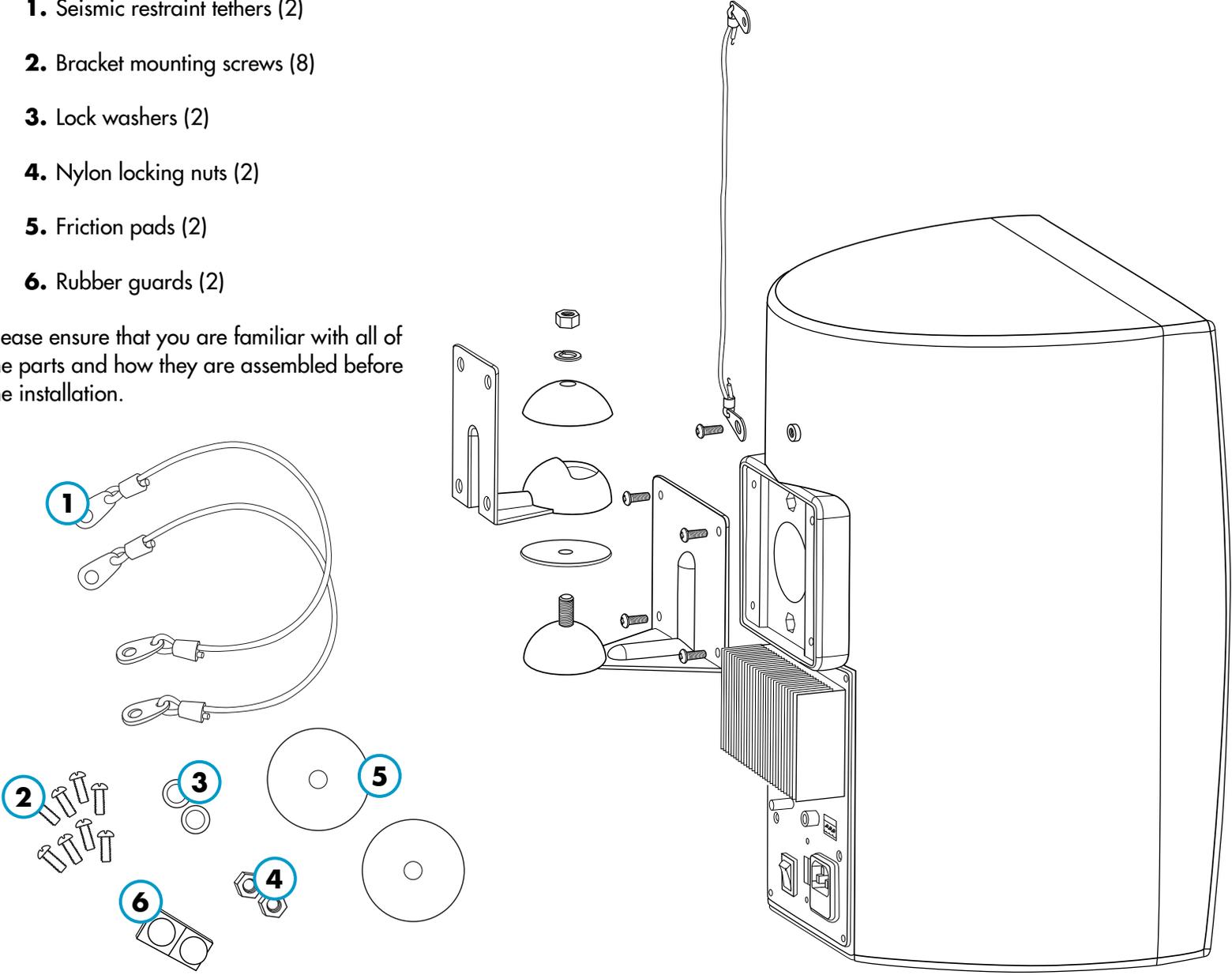
Both models are fitted with 4 threaded inserts on the rear for attaching the supplied mounting bracket. Access to the mounting points is gained by removing the four screws and the blank cover plate. There is also a threaded insert for attachment of a seismic restraint tether.



A complete installation kit designed to work with the supplied mounting brackets is included with each model and consists of:

- 1. Seismic restraint tethers (2)
- 2. Bracket mounting screws (8)
- 3. Lock washers (2)
- 4. Nylon locking nuts (2)
- 5. Friction pads (2)
- 6. Rubber guards (2)

Please ensure that you are familiar with all of the parts and how they are assembled before the installation.



INSTALLATION

Step 1 – Install bracket A to wall using suitable fasteners.

Step 1a – Remove four screws holding cover plate (2) on rear of speaker.

Step 1b – Mount the bracket with the threaded bolt to the cabinet using the four screws removed in step 1 (4).

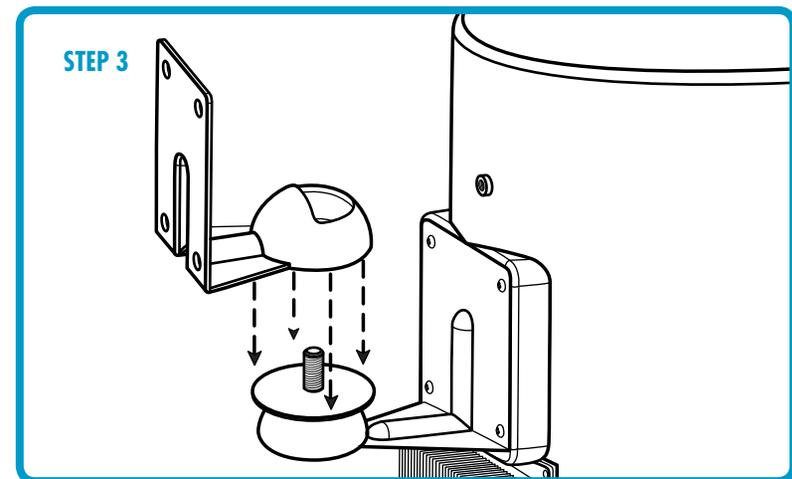
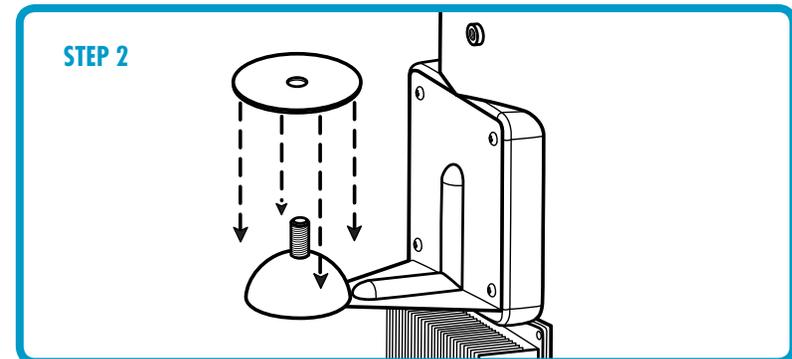
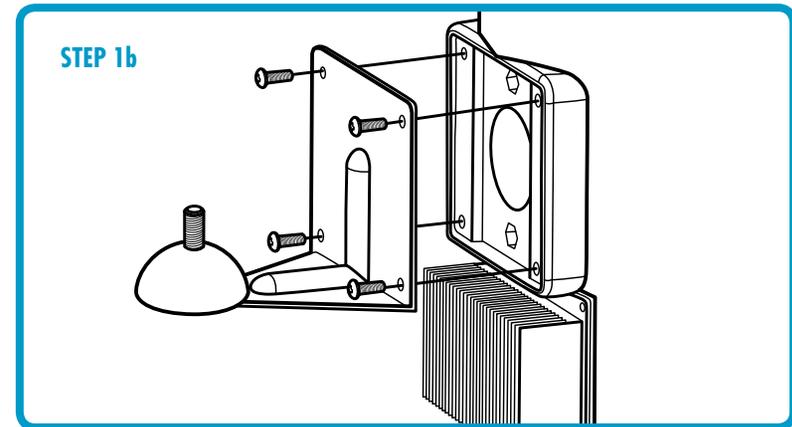
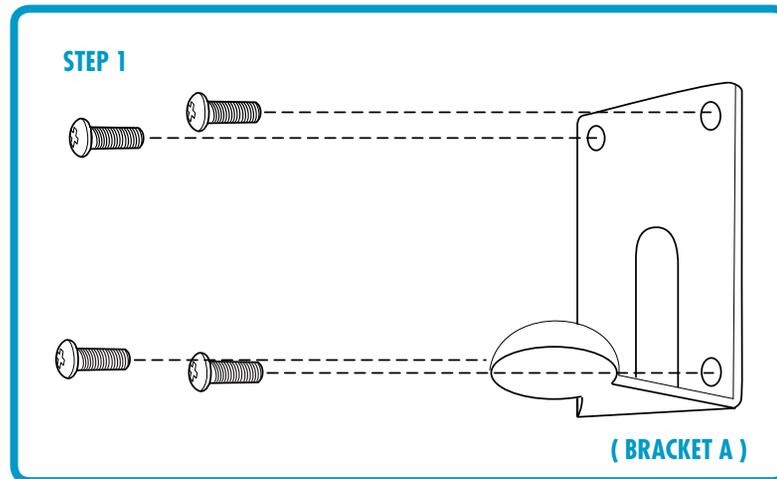
Step 2 – Place the rubber friction washer over the bolt.

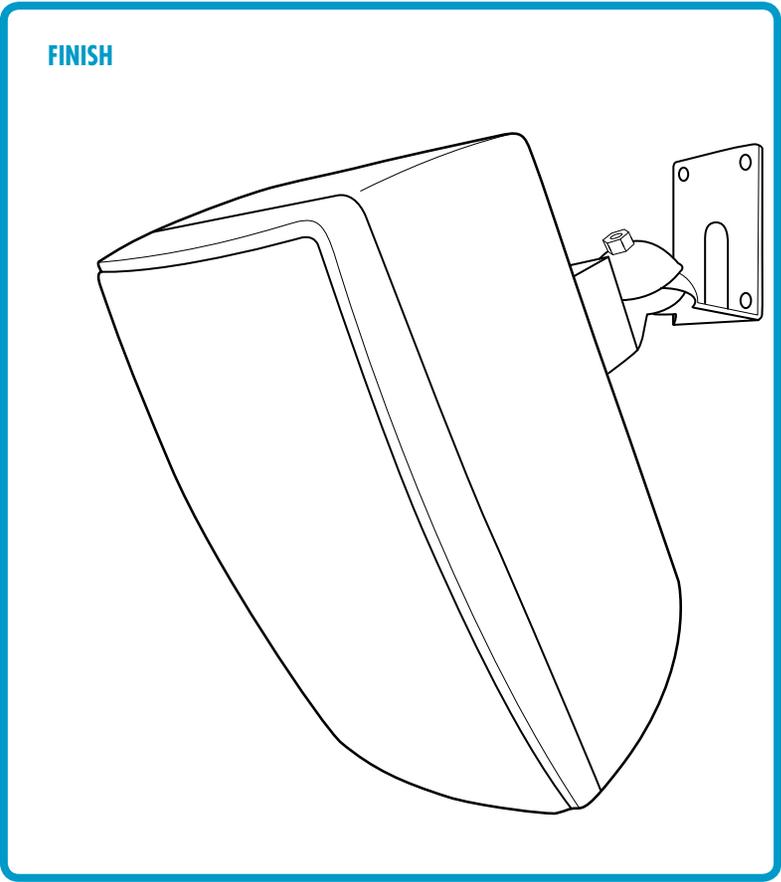
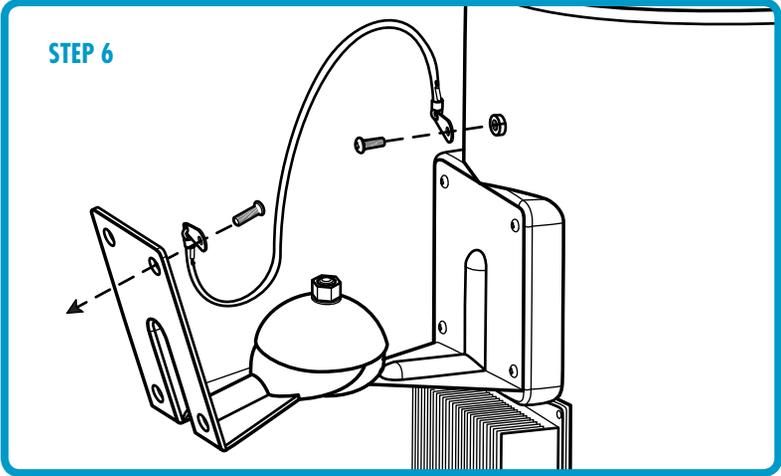
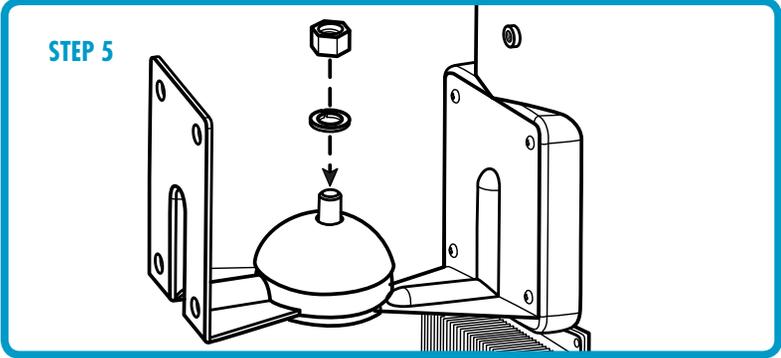
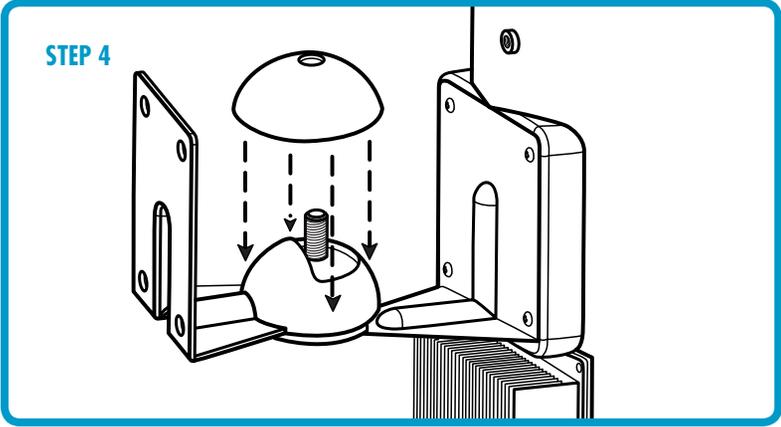
Step 3 – When the speaker is ready for installation, insert the bolt in the wall plate bracket from below.

Step 4 – Place the dome cover over the bolt.

Step 5 – Place the lock washer and hex nut on the bolt. Tighten gently, aim the speaker as needed and tighten firmly.

Step 6 – Ensure that seismic restraint cable is firmly attached to both the loudspeaker and an anchor point on the mounting surface.





CONNECTIONS & OPERATION

CAUTION: Before connecting this unit to the AC power supply please ensure that the Voltage Selector Switch is set correctly for the voltage in your region and that you are using a suitable power cable.

The Q6A and Q8A may be connected to either a balanced audio system or an unbalanced source. Typically, balanced connections are preferred. Balanced connections are less likely to respond to radio frequency interference or cross-talk from other sources, and allow for longer cable runs. Unbalanced connections are acceptable only where the mixer does not offer balanced outputs and where the cable runs are less than 5m/15'.

Determine where the speakers will be placed and ensure that there is AC power available nearby. In instances where there is no local power outlet you may need to provide an extension cable. Ensure that all local and national electrical codes are observed and that the power cable used is properly rated. If in doubt consult with a certified electrician or electrical engineer.

BALANCED CONNECTIONS

Balanced connections require a quality, two-conductor shielded cable. Balanced connections require one conductor for the positive (+) signal and one conductor for the negative (-) signal, a third conductor (shield) to create a direct connection to ground (Earth).

Remove the detachable connector plug supplied with the speaker. Prepare the cable by stripping each conductors' insulation 6mm (1/4"). Insert each conductor into the appropriate position, noting polarity and tighten the corresponding screw firmly. Once all wires have been terminated inspect the connector plug to ensure that there are no stray wire strands that could cause a short-circuit.

Balanced lines may be extended in parallel between speakers, allowing several speakers to be driven from one mixer output.

However this configuration will present the signal source with a lower impedance than it would typically drive and may cause added distortion or even damage to the source outputs. The recommended method for connection of multiple Q6A and Q8A active loudspeakers to one source output is through use of a suitable active distribution amplifier or passive splitter.

UNBALANCED CONNECTIONS

For unbalanced operation connect the mixer or preamplifier directly to the RCA input by means of a standard unbalanced RCA cable. Unbalanced connections employ one conductor to pass the audio signal and a second conductor to act as both audio common and shield. Unbalanced connections are susceptible to radio frequency interference and electromagnetic interference which may cause the speaker to hum, buzz or even rebroadcast audio signals. For this reason, observe the following guidelines when making unbalanced connections:

- Don't use cables longer than 5m (15')
- Avoid running cables near electric motors, appliances, television sets or other sources of electromagnetic interference
- Ensure that the speakers and mixer, or preamplifier, are all connected to the same AC power circuit to prevent possible ground loops

OPERATION

Ensure that the power switch is in the OFF position before connecting the power cable to the AC Input socket. Connect the cable to a nearby AC Mains outlet and then plug in the audio input cable. Rotate the volume control counter-clockwise to the minimum setting before switching the power on. Start the program source and set the preamplifier or mixer gain to a nominal level.

Then, slowly increase the speaker's level by turning the Volume control counter-clockwise until the sound level is adequate for the application.

TROUBLESHOOTING

NOTE: The Concourse Q6A and Q8A are not user-serviceable, and no attempt should be made to repair or modify the electronics in the field. Refer all service and repair to the nearest authorized QUAD Industrial service center or directly to the QUAD Industrial distributors sales office in your region.

In the event that the speaker does not power up, first check the power outlet and the power cable. If power is present at the outlet, REMOVE THE POWER CABLE FROM THE SPEAKER and check the internal fuse that is mounted inside of the IEC receptacle on the rear panel of the speaker. Use a small screwdriver to gently remove the fuse holder and test the continuity of the fuse. Replace the fuse with only the exact model and value printed on the rear panel based on the voltage at which the speaker is set. Connect the AC supply and switch on the speaker.

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

Power Amplifier	Q6A	Q8A	QSUB	QSUBA
Watts RMS:	50W	50W	2x125W/2x 250W/2x500W	Amp Power: 300W
AC Power:	Switchable 110-120 220-240	Switchable 110-120 220-240	N/A	110-120 Two versions
Frequency Response: (-10dB)	50Hz–20kHz	50Hz–20kHz	35Hz–420kHz	35Hz–250kHz
Frequency Response: (+/-3dB)	70Hz–17kHz	80Hz–16kHz	42Hz–350kHz	38Hz–225kHz
Sensitivity (@2.83V): Max SPL:	85dB 102dB	86dB 103dB	82dB 106dB	Max Power Output: 105dB Measured @ 1m (250mv)
Coverage (H x V):	150° x 170°	130° x 170°	N/A	N/A
Directivity (DI) (H x V):	6.3	6.54	N/A	N/A
Impedance:	N/A	N/A	Left 8Ω/Right 8Ω	N/A
Regulatory Approvals: (9UL, CE)	CE	CE	CE	CE
Transducers:				
LF Driver Size	6.5" Cone	8" Cone	10" Long Throw	10" Long Throw
HF Driver Size	1" Soft Dome	1" Soft Dome	N/A	N/A
Crossover Frequency:	2.2kHz	2.0kHz	150Hz	80, 100, 150, 200
Enclosure Material:	Plastic (ABS)	Plastic (ABS)	Wood (MDF)	Wood (MDF)
Connector Type:	Screw Terminal	Screw Terminal	2 x Terminal Strip	Parallel & Line Input
Dimensions: (H x W x D)	245 x 216 x 370mm 9.6" x 8.5" x 14.6"	270 x 234 x 405mm 10.6" x 9.2" x 15.8"	585 x 372 x 316mm 23" x 14.6" x 12.4"	585 x 372 x 316mm 23" x 14.6" x 12.4"
Net Weight:	4.6kg 10.12lbs.	5.2kg 11.4lbs.	14.2kg 31.24lbs.	15.7kg 34.54lbs.

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