A Notes on Rigging Safety

Please read these instructions carefully before you begin setting up the system!

1 Warranty and Liability

HK AUDIO® shall not be held responsible for damages due to improper use or non-compliance with the safety specifications for setup and operation.
All warranty and liability claims for personal injury and property damages are excluded if attributable to one or several of the following:

- non-compliance with operating manual instructions, voiding product liability and warranty claims
- unintended use of rigging frames
- non-compliance with operating manual instructions regarding transportation, storage, initial setup, operation, maintenance and repair
- unauthorized structural modifications performed on rigging hardware
- unauthorized modification of the parameters indicated in the operating manual
- inadequate or improper repairs

2 Notes on Safety for the HK Audio® CT 112 and CT 115

The ConTour Series™ Rigging System's provisions for use require that it be installed in accordance with the following specifications. Before you begin installation, ensure that the pick points (for example, a chain hoist) on the stage roof or the venue's ceiling comply with BGV-C1 accident prevention regulations and that the safety standards authority TÜV has certified them for the full load. Prior to every installation, inspect all components to ensure they are in good working order, taking particular care to confirm that all Aeroquip tracks and connecting components (cables, fittings) are undamaged.

Use only the parts specified in this operating manual! Be sure to protect cabinets against rain and moisture when they are deployed outdoors. These enclosures must be mounted in accordance with the instructions stipulated in this installation manual. Keep all documents pertaining to the system in a safe place.

The principle requirement for safe handling and trouble-free operation of this rigging system is a thorough understanding of fundamental operating safety and safety regulations.
This operating manual contains the most vital instructions concerning the safe operation of CT 112 and CT 115 enclosures.

2.1 Responsibilities of the Operator

As the operator, you are obligated to allow only those persons to work with rigging frames who are

- 16 years of age or older,
- physically and mentally able, familiar with the basic rules of industrial safety and accident prevention, and trained in the handling of rigging systems.

Be sure to regularly review and confirm personnel's working safety awareness.
In addition, task personnel with specific responsibilities for setting up, putting into service, operating, maintaining, and repairing equipment. Ensure that personnel are trained to work with the rigging system only under the supervision of a proficient and experienced technician. Ensure also that defects, flaws and other damage that could impede safety are repaired immediately.

2.2 Maintenance, Inspection and Repair of HK AUDIO® ConTour Series™ Rigging Hardware

Inspections
§ 39, VBG 9a of the German employers' liability insurance association's accident prevention regulations requires that load-bearing equipment be inspected by a qualified expert and possible defects be eliminated prior to initial commissioning by the recipient.

§ 40, VBG 9a requires that load-bearing equipment be inspected at least annually for cracks. When used in dynamic applications, equipment must be inspected for cracks every six months.

Maintenance
You are authorized to replace easily serviceable wearing or standard parts in accordance with the manufacturer's instructions. Use original parts for this purpose.
Tighten screws and bolted connections whenever necessary.

Repair
In the event that parts of the load-bearing equipment have been deformed, it is up to the manufacturer to determine if they are repairable. Solely the manufacturer is authorized to perform welding and repair work on load-bearing equipment.

2.3 Technical Specifications of HK AUDIO® ConTour Series™ Rigging Hardware

Load-bearing capacity: 35 kg
Test load: 210 kg
Ambient temperature when in operation: min –10° C, max + 60° C

C Rigging ConTour Series™ CT 112/ CT 115 Enclosures

Please also read the Notes on Rigging Safety in Chapter A of this manual.

ConTour Series™ Rigging Hardware for CT 112 and CT 115 enclosures enables the cabinets to be flown from a single pick-point. One Aeroquip track each is embedded in the enclosure's lid and in one side panel for this purpose.

Cables or chains may be used to fly cabinets. These are connected to the Aeroquip tracks using suitable connectors. A special mounting yoke is available for CT 112 and CT 115 enclosures. It attaches to the track embedded in the speaker's lid.

1.1 Flying Enclosures with Cables or Chains

Figure 22: The rigging track in the lid
Figure 23: Attaching the rigging cable

1.2 Mounting Yoke for CT 112 and CT of 115 Enclosures

The mounting yoke for CT 112 and CT 115 enclosure is attached to the Aeroquip track on the lid using two M10 screw attachments (M10 studs). Insert an M10 stud into the first and last points on the track, affix the locking ring into its designated hole and set the mounting yoke in place. Attach the yoke using the knob screws. Secure the speaker and yoke hanger with a suitable arrest wire to prevent the enclosure from falling. Use the HK AUDIO® EB 10 eyebolt for this purpose. Remove the countersunk screw on the speaker's rear panel and insert the EB 10 eyebolt in its place. Run the safety cable through the eyebolt.

Figure 24 a, b: Inserting studs
Figure 25: Attaching mounting yokes to CT 112 and CT 115 enclosures
Figure 26: Attaching the EB 10 eyebolt and arrest wire

Loosen the side-mounted toggle screws to adjust the tilt angle.
The CT 112/ CT 115 mounting yoke's maximum load-handling capacity is 34 kg. No more than one enclosure may be mounted to it.

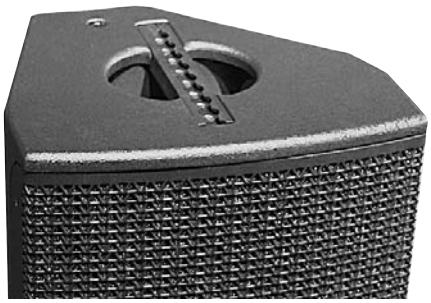


Figure 22: The rigging track in the lid

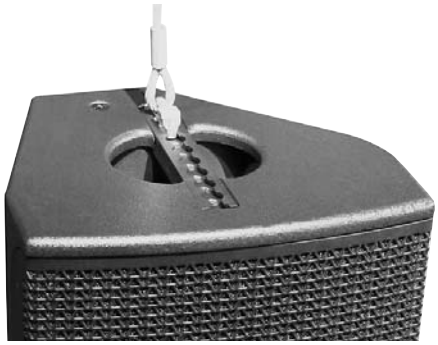
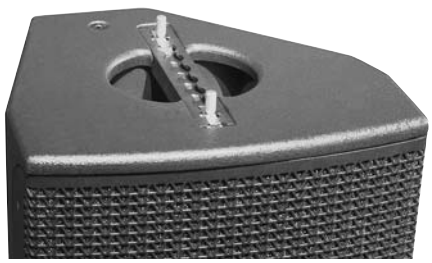


Figure 23: Attaching the rigging cable



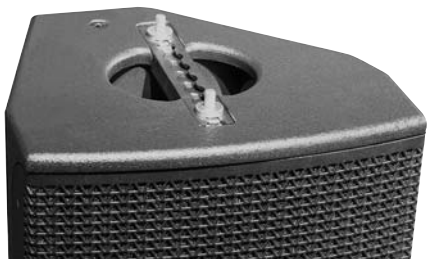


Figure 24 a, b: Inserting studs

Figure 25: Attaching mounting yokes to CT 112 and CT 115 enclosures

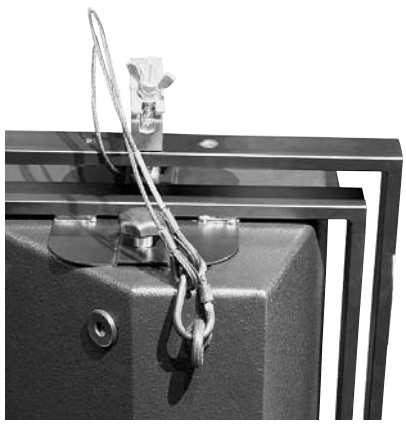


Figure 26: Attaching the EB 10 eyebolt and arrest wire