Fono installation manual (Mains)

Version 2.6

20 March 2018

Contents

This manual contains all information you need to assemble and install this product. Make sure you check all safety chapters and follow the instructions to prevent dangerous situations.
If you have any remarks or improvements, please contact us.

Have fun with the product!

Yalp sports- & play equipment

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1 Preparation

Package information

|		
Crate material	pine wood	
Package weight	± 1650 kg/	± 3638 lbs
Dimensions transport crate (L x B x H)	2,26 x 0,77 x 2,2m	7'5" x 2'6.3" x 7'2.6"

Use a Torx (T25) screwdriver to open the crate.

Before assembling the product please make sure:

- You have all necessary parts (page 4)

- You have the necessary tools (below)

Make sure a power cable for the Fono is ready and installed on location, with an additional length of at least 2 meters (6.6 ft). The power supply must be assembled on a separate group with a 30mA ground fault circuit interrupter (GFCI), fused on 10A or 16A.

YMvKas ground cable, 2 cores, 2,5mm². Maximum cable diameter; 18mm (0.004in²; 0.7")
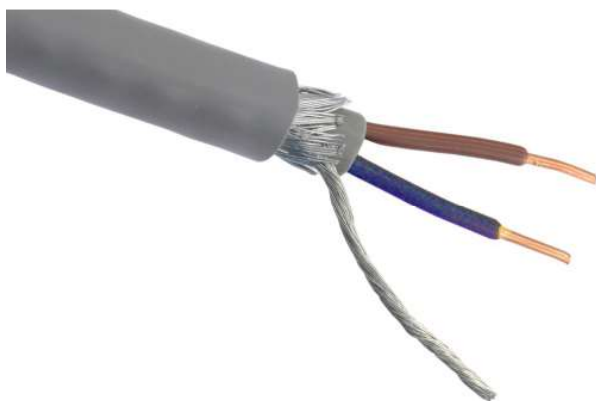
When placing Fono:

- Make sure at least 1,5m of free space without obstacles is available around the Fono for safety reasons.

- When Fono is placed in a playground, create fall height zones around:
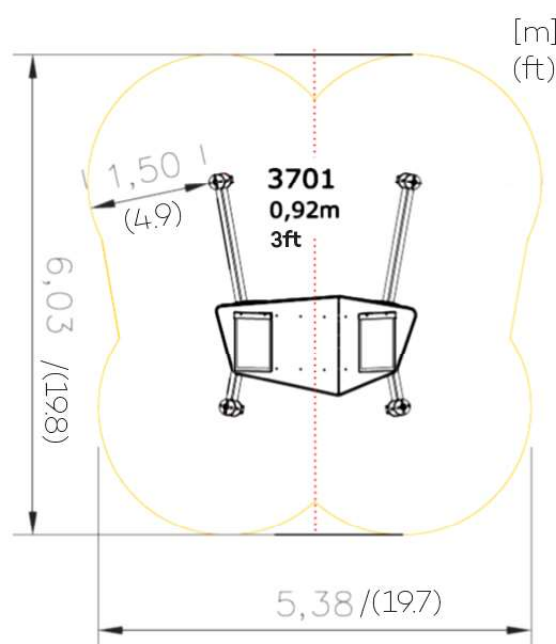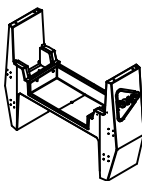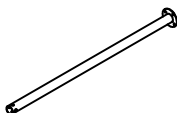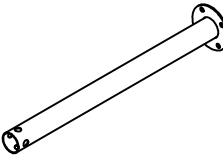

Tool list

Assembling
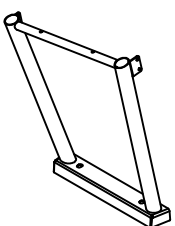
- (Power) tools for M12 and M16

- Security Torx-45 bit (with hole cut-out)

- M8 tap

- Hobby knife

Installation
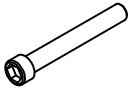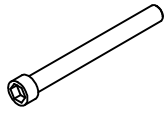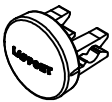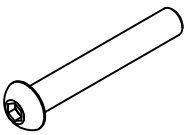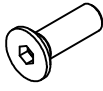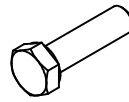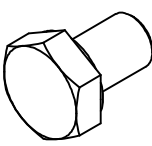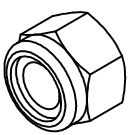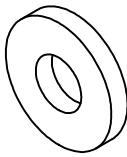
- Forklift truck/small crane with forks

- 12x M10 anchor bolts or other to mount the Fono to the ground (to be decided dependent on mounting surface)

2 Parts - Fono

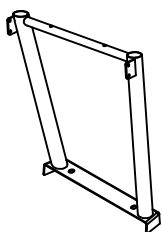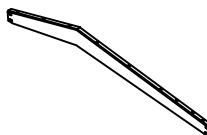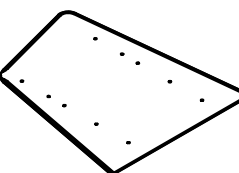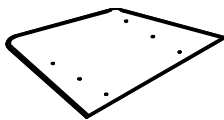| 123-110	1 PCS
Fono concrete	

123-410	4 PCS
Tube left front	

123-510	4 PCS
Tube left back	

123-430	4 PCS
Tube stand	

211692	1 PCS
Roof right side	

210944	1 PCS
Roof left side	

906701	2 PCS
Roof flange	

705684	1 PCS
Big roof plate	

705685	1 PCS
Small roof plate	

3 Parts - Mounting

69427	16 PCS
Cloxx connector	

033414_1	16 PCS
Bolt M12x90	

041013_1	16 PCS
Bolt M12x120	

043563_1	32 PCS
Hex nut M12	

905774	28 PCS
Blue insert	

100-214	32 PCS
Bolt M8x20 secured	

100-249	4 PCS
Bolt hex socket M8x55	

100-230	16 PCS
Hex bolt rec. head M8x25	

100-241	8 PCS
Hex bolt M8x30	

100-248	4 PCS
Hex bolt M16x25	

100-271	22 PCS
Torque nut M8	

100-281	22 PCS
Washer M8	

100-284	4 PCS
Washer M16	

100-285	8 PCS
Big washer M8 24mm	

4 Dimensions

[103,8]
2636

[120,2]
3054

[98,5]
2503

[24,5]
623

[36,0]
913

[63,5]
1612

[50,2]
1274

[15,9]
404

[33,4]
849

[33,7]
857

[62,8]
1596

[23,6]
600
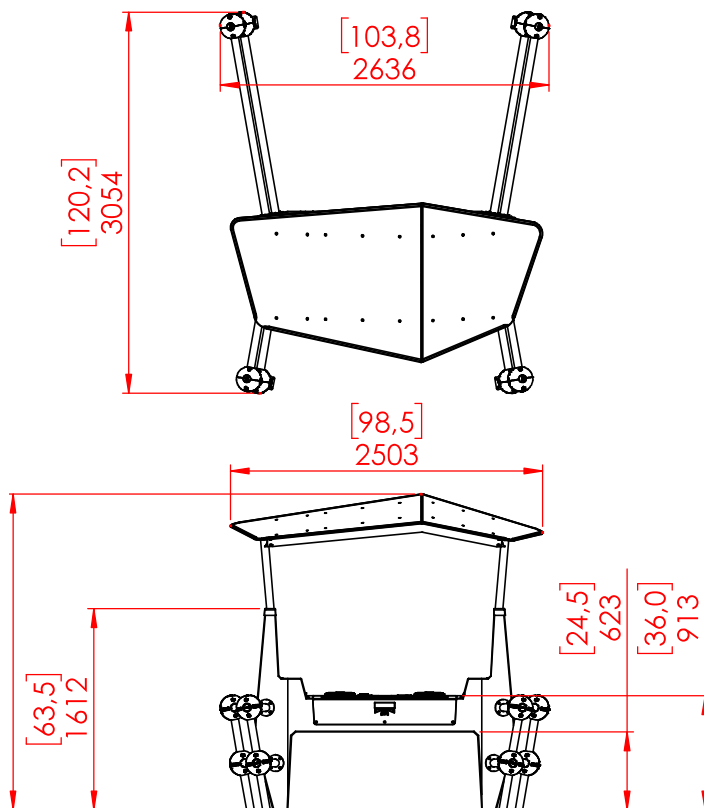
dimensions between[ ] in inches
other in mm
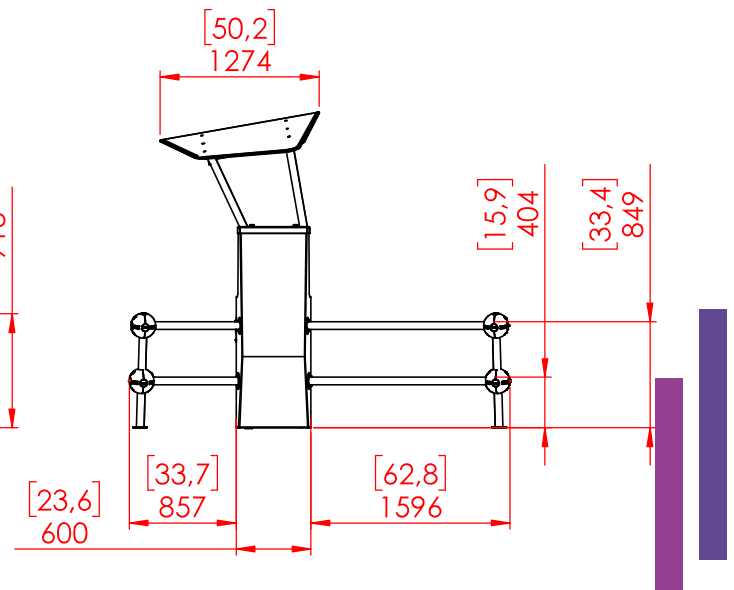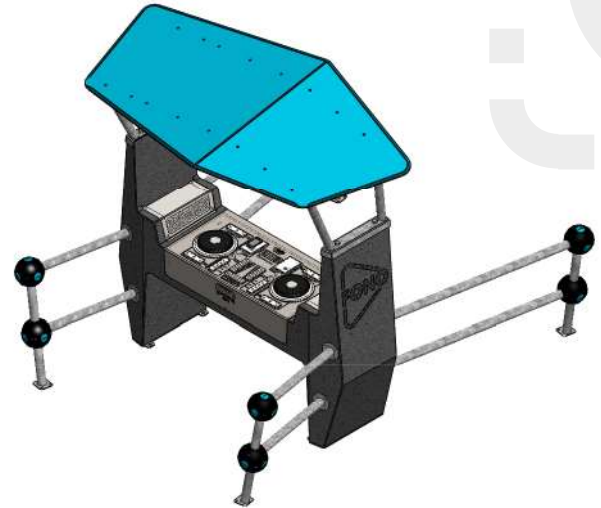
5 Mounting preparations

Preparations
Customer takes care of a power cable on location, with an additional length of at least 2 meters (6.6ft).

Power cable input:
left foot, DJ side
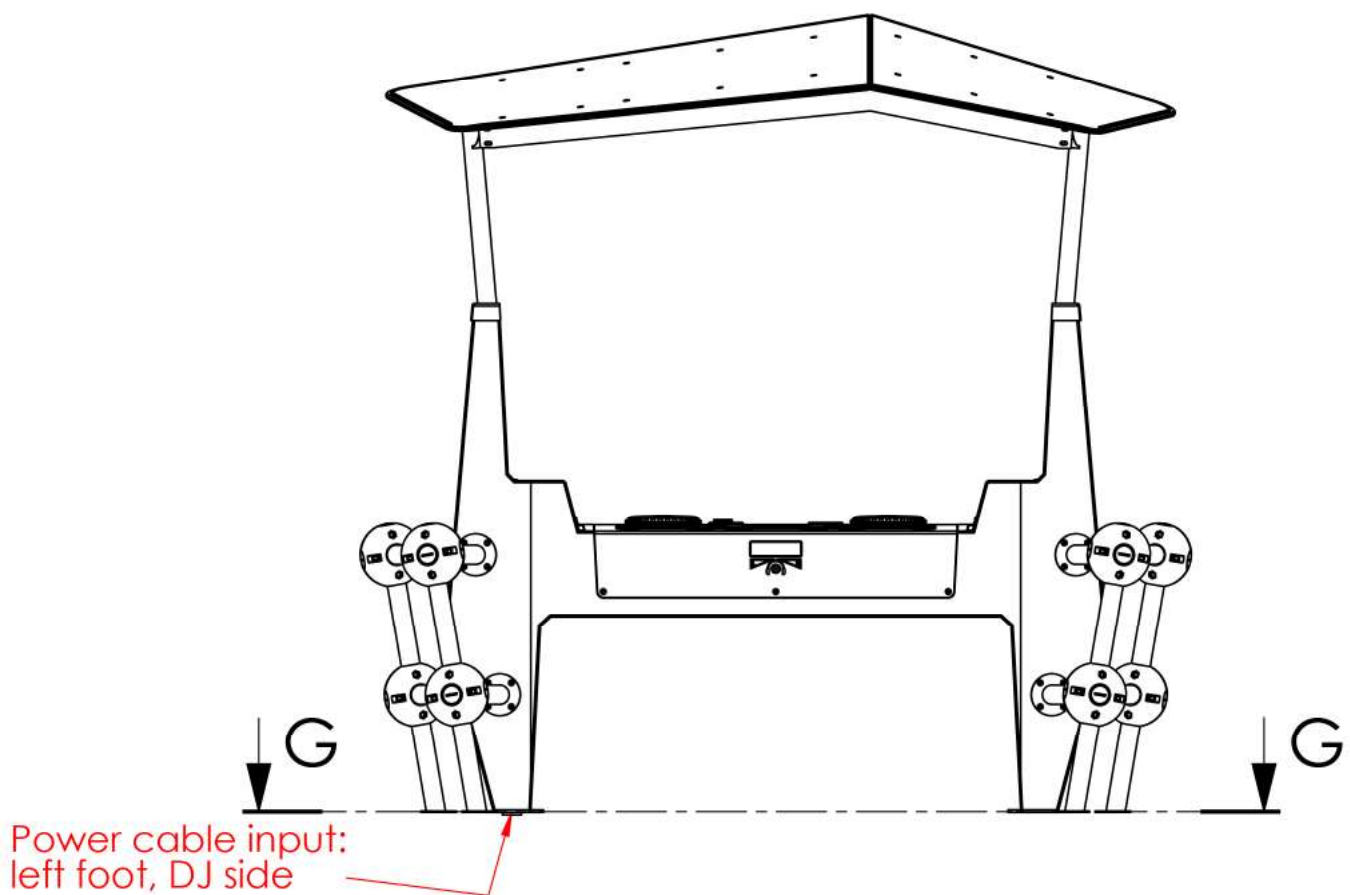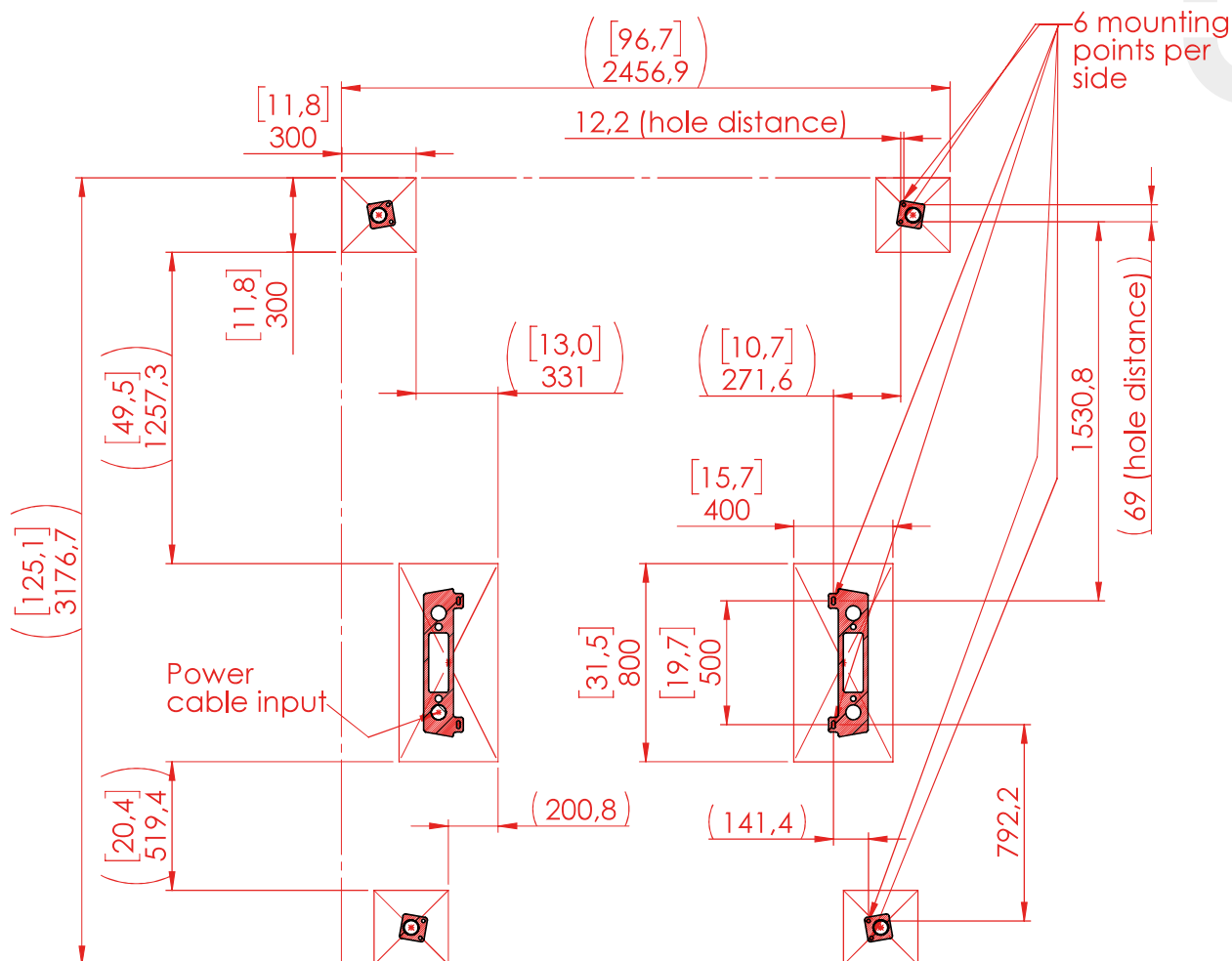
! Important !
The drawing above shows the dimensions for a concrete foundation of the Fono. There are 6 mounting points on each side.
Very important for installing the Fono is the location of the power cable. Be careful it's located at the right spot: in the left foot of the Fono, from DJ point of view.

6 Installation: Put Fono in place

1. Lift the Fono above the power cable with a forklift.

side view

pallet
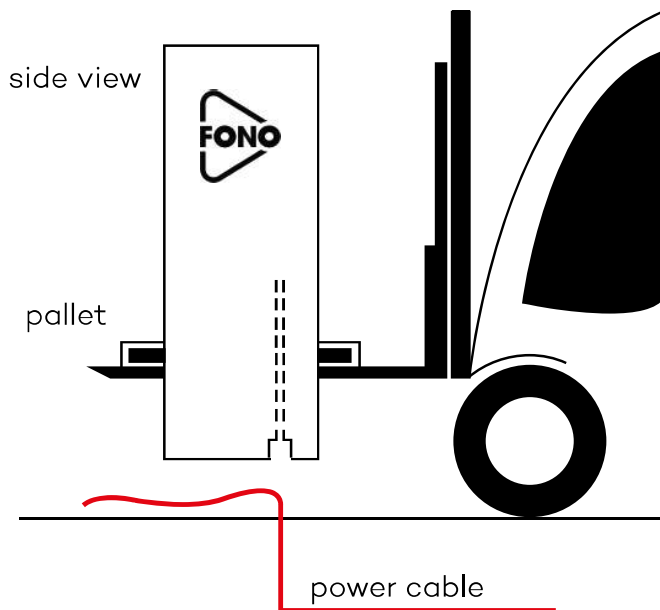
power cable

2. Pull the cable through the Fono (see picture below).

side view

pallet

slowly
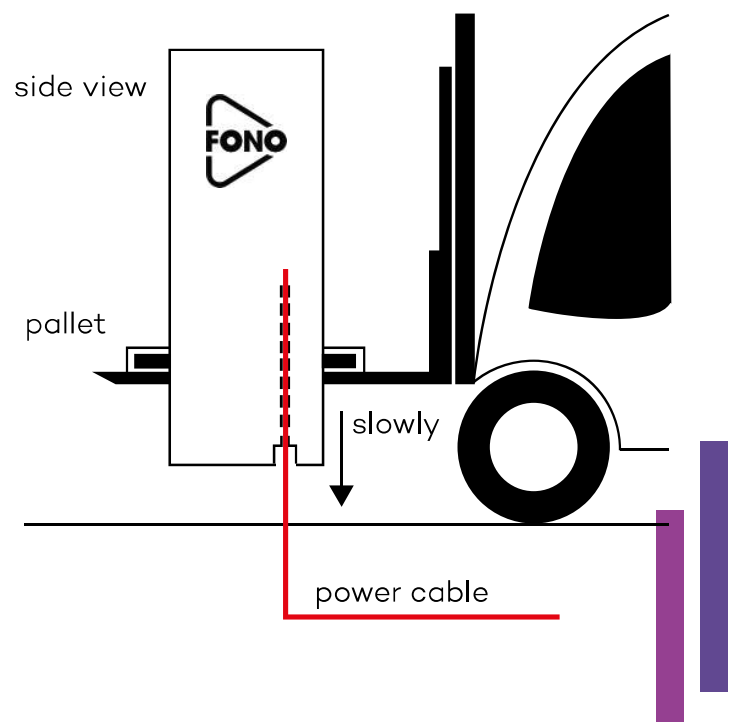
power cable

3. Place the Fono gently in the right position on the ground.

side view

pallet
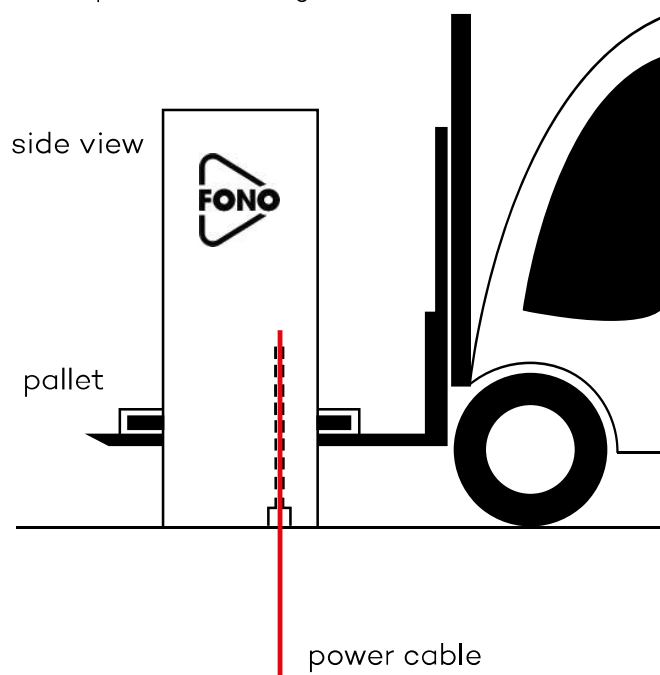
power cable

7 Installation: Power supply

1. Open the Fono hood.

2. Pull the power cable through the left foot (from DJ point of view) through the tube in the concrete base, trough the speaker room, on to the electronics room beneath the Fono interface.

3. Led the cable into the junction box* where the 230V cable can be connected to the 12V power system of the Fono by a certified installer.

! Important !
The power supply must be assembled on a separate group with a 30mA ground fault circuit interrupter (GFCI), fused on 10A or 16A. For example with a protection box of the type: Merlin Gerin, MG 10A-B 19791 DPNA VIGI 30MA.

! Warning ! Danger of cutting fingers
Be careful for your fingers when closing the hood! If not stopped from falling it closes very quickly giving severe hazard.

1. Junction box*

2. Power supply

3. Amplifier

4. Computer box

230 V 12 V (diameter max. 18 mm)

A

Standard power condition

power cable

N

L
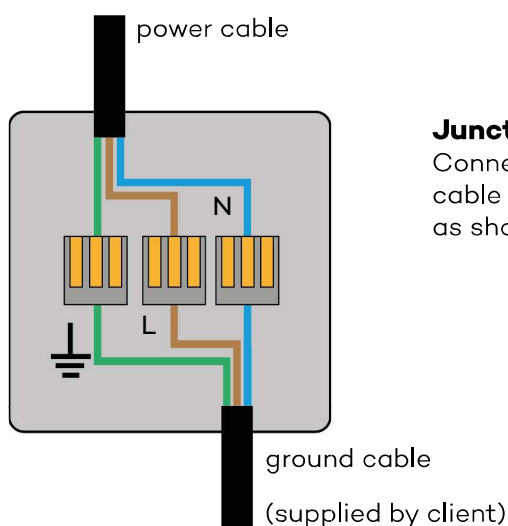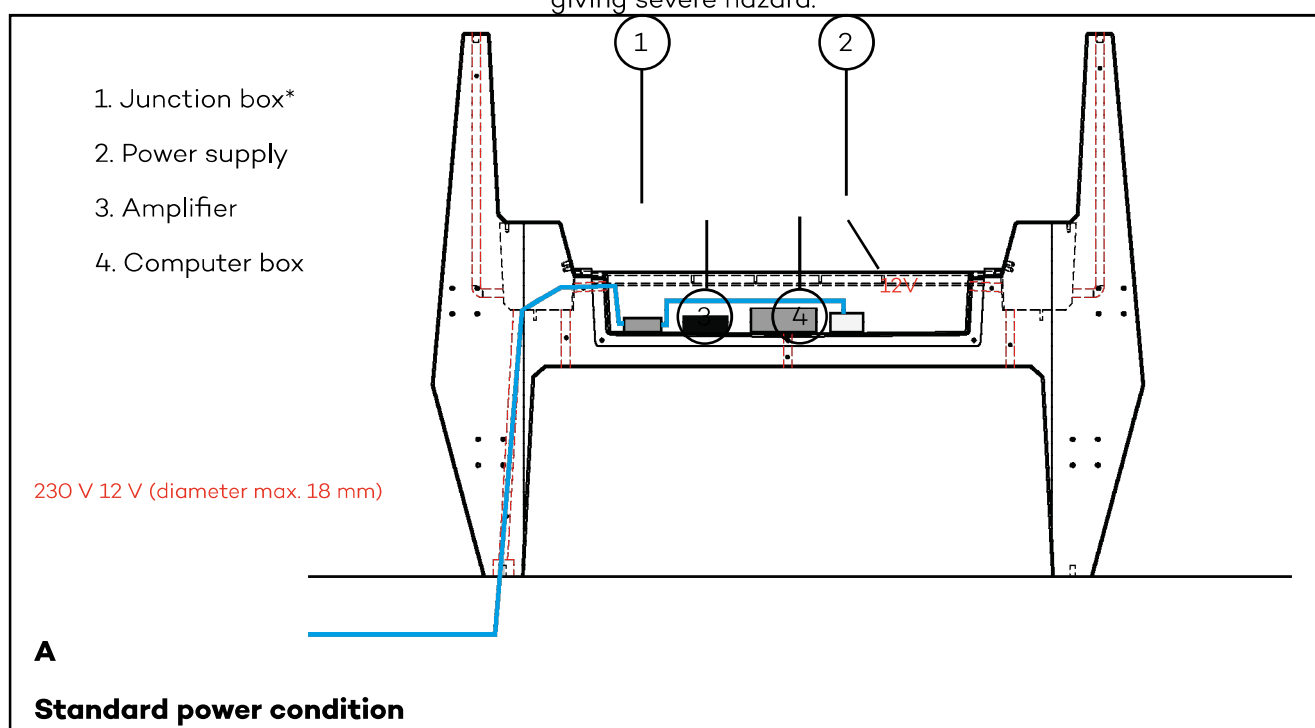
Junction box*
Connect the ground cable to the power cable inside to Fono in the junction box, as shown on the left.

ground cable

(supplied by client)

This option is only admissible to use at exhibitions. Remove cable and install following option A for permanent installation.

1. Junction box*

2. Power supply

3. Amplifier

4. Computer box

12V

230 V Temporarily power cable through

water drain concrete base

B

Exhibition purpose only
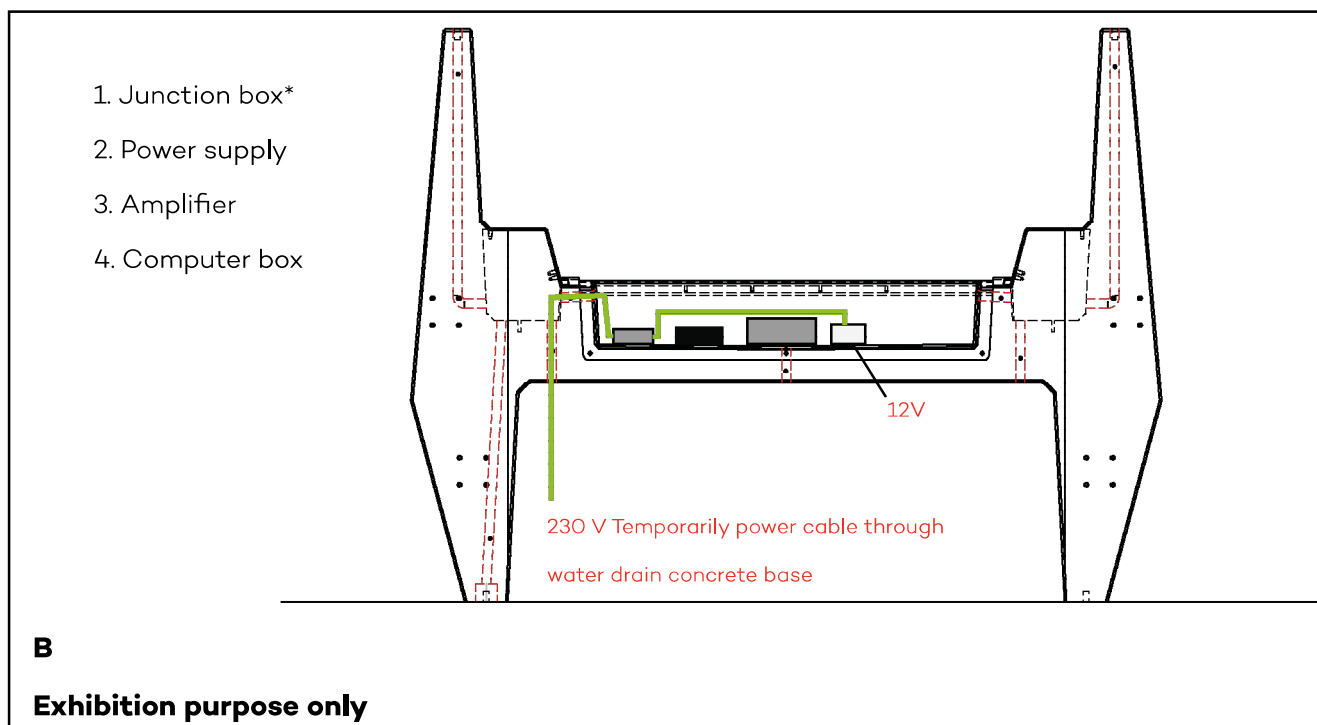
(PRE-INSTALLED) Connector
In case of replacing the power supply, use this picture to rightly connect the cables to the connector.

Brown

1

green/ yellow

2

Blue

3

inside AC connector
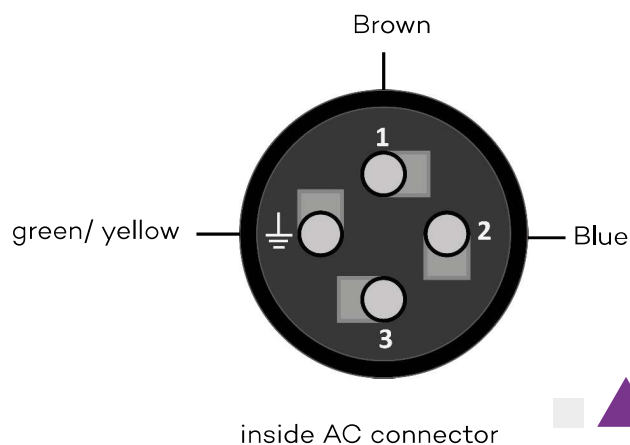
8 Installation: Concrete base
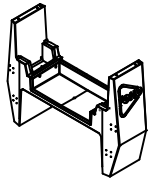
1. Lift the Fono concrete base in position. We recommend using a forklift or a crane with forks.

Lift with crane: Only with use of crane leveler, as shown in figure 1. (only lift vertical!)

123-110	1 PCS

Fono concrete

Figure 1
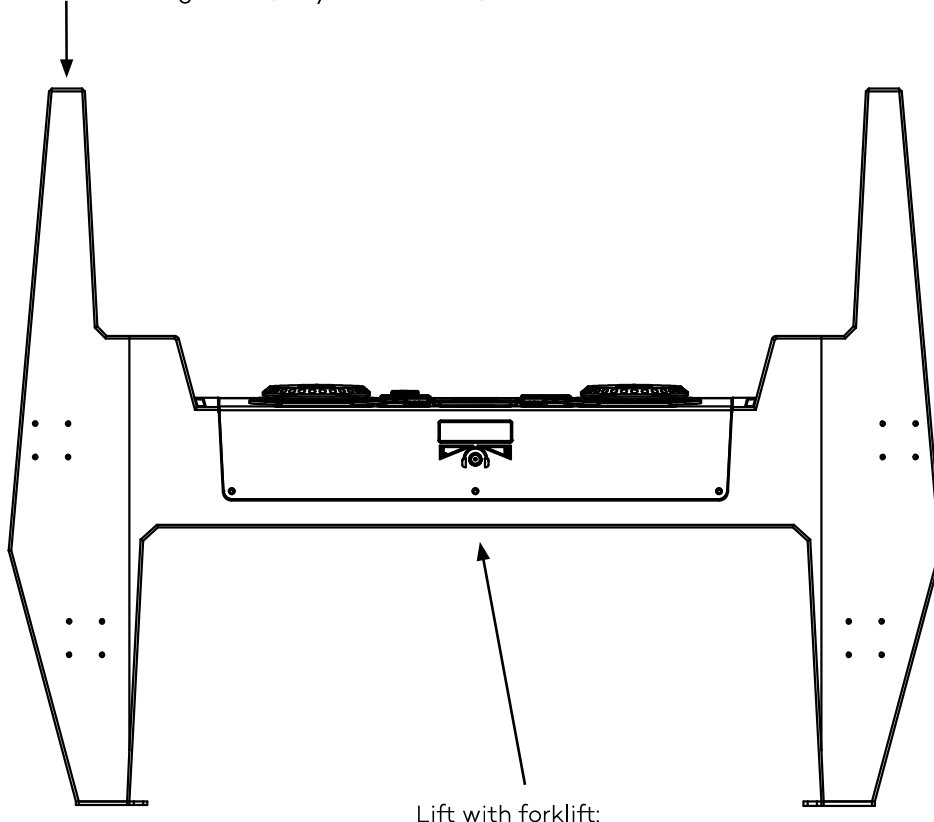
Lift with forklift:

- Use a pallet or other protection between forks and concrete!!!

2. Put the Fono in a stable position and bolt it to the floor using anchor bolts.

Bolt to floor
(4x M12)
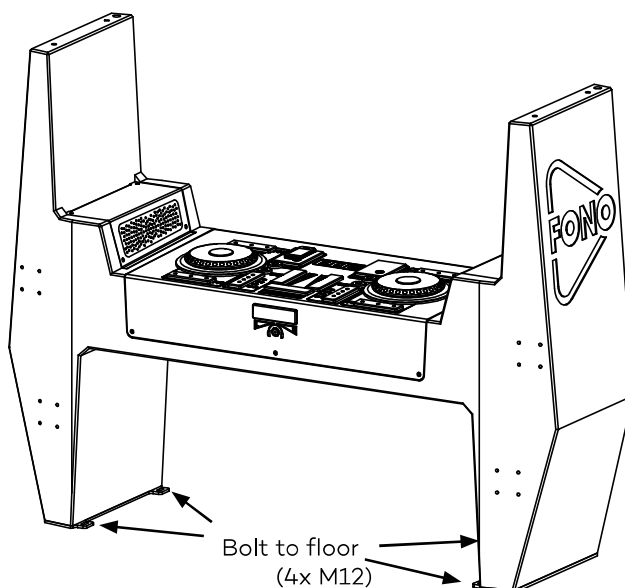
9 Installation: Roof frame

1. Put the first roof frame (in the right position) up.

2x hexagon bolt (100-248)
2x washer M16 (100-284)

210944	1 PCS	100-248	2 PCS
Roof left side		Hex bolt M16x25	

100-284	2 PCS
Washer M16	
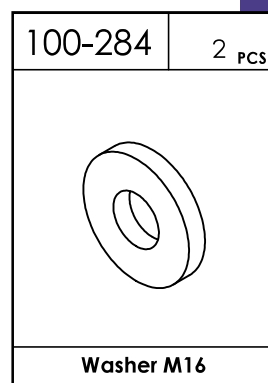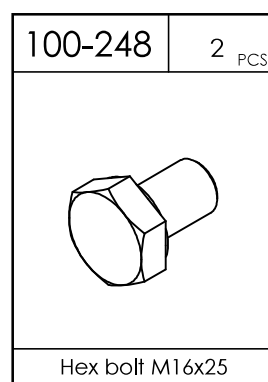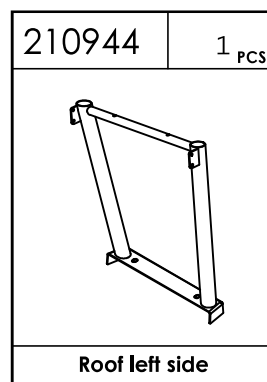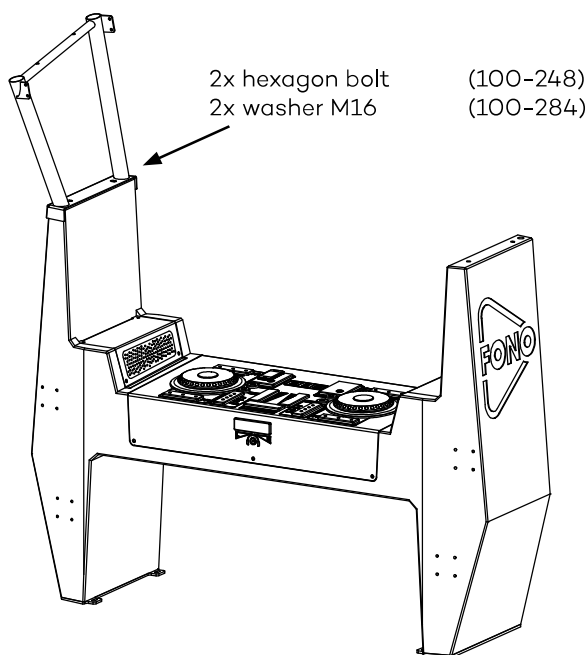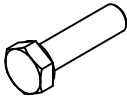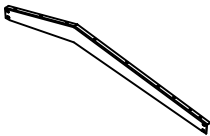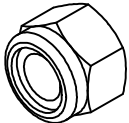
2. Put the second roof frame up.

211692	1 PCS	100-248	2 PCS
Roof right side		Hex bolt M16x25	

100-284	2 PCS
Washer M16	

2x hexagon bolt (100-248)
2x washer M16 (100-284)
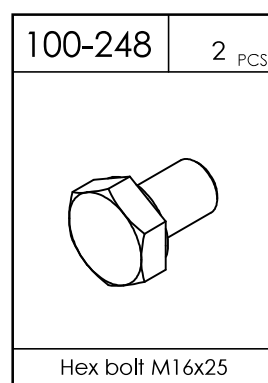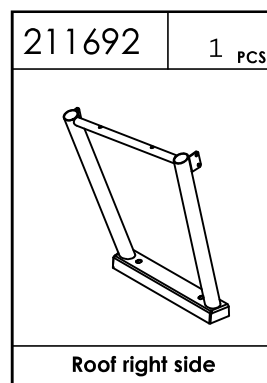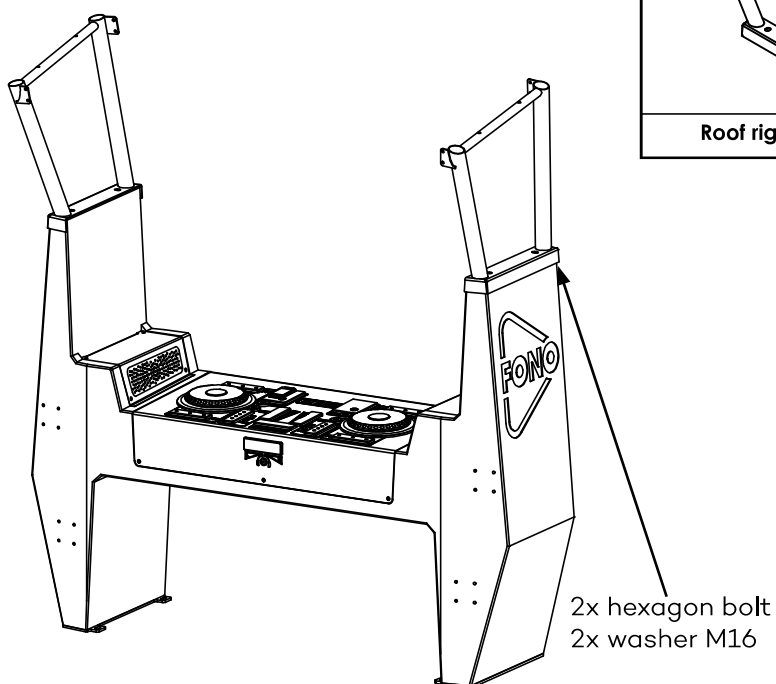
3. Put the first roof flange up.
Do not tighten the bolts yet
to keep aligning possible.
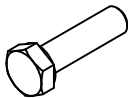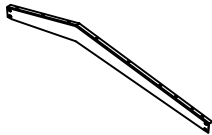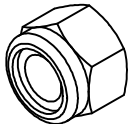
A

100-241	4 PCS	906701	1 PCS
Hex bolt M8x30		Roof flange	

100-271	4 PCS	100-285	4 PCS
Torque nut M8		Big washer M8 24mm	

Each side:
2x hex bolt M8x30   (100-241)
2x washerM8   (100-271)
2x torque nut M8   (100-285)

4. Put the second roof flange up.
Do not tighten the bolts yet.

B

100-241	4 PCS	906701	1 PCS
Hex bolt M8x30		Roof flange	

100-271	4 PCS	100-285	4 PCS
Torque nut M8		Big washer M8 24mm	

Each side:
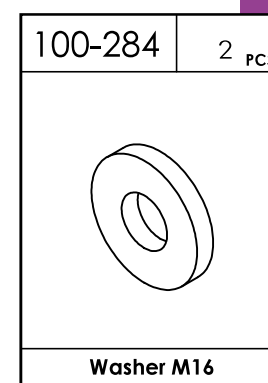2x hex bolt M8x30   (100-241)
2x washer M8   (100-271)
2x torque nut M8   (100-285)

10 Installation: Roof plates

1. Install the first roof plate.
At least 2 persons are needed
to perform this task. Do
not tighten the bolts yet.

C
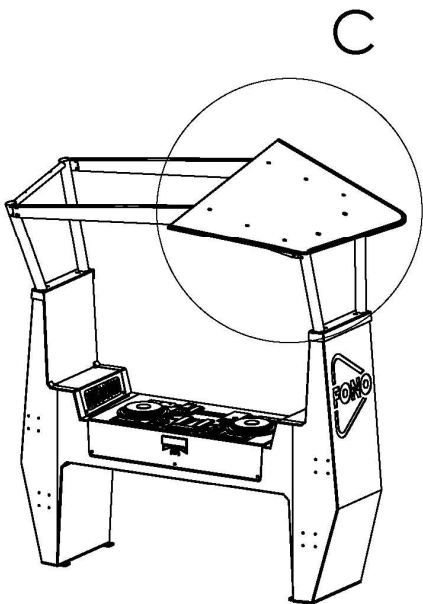
100-230	6 PCS
Hex bolt rec. head M8x25	

705685	1 PCS
Small roof plate	

100-271	6 PCS
Torque nut M8	

100-281	6 PCS
Washer M8	

6x M8x25mm countersunk   (100-230)
6x washer M8   (100-281)
6x torque nut M80   (100-271)
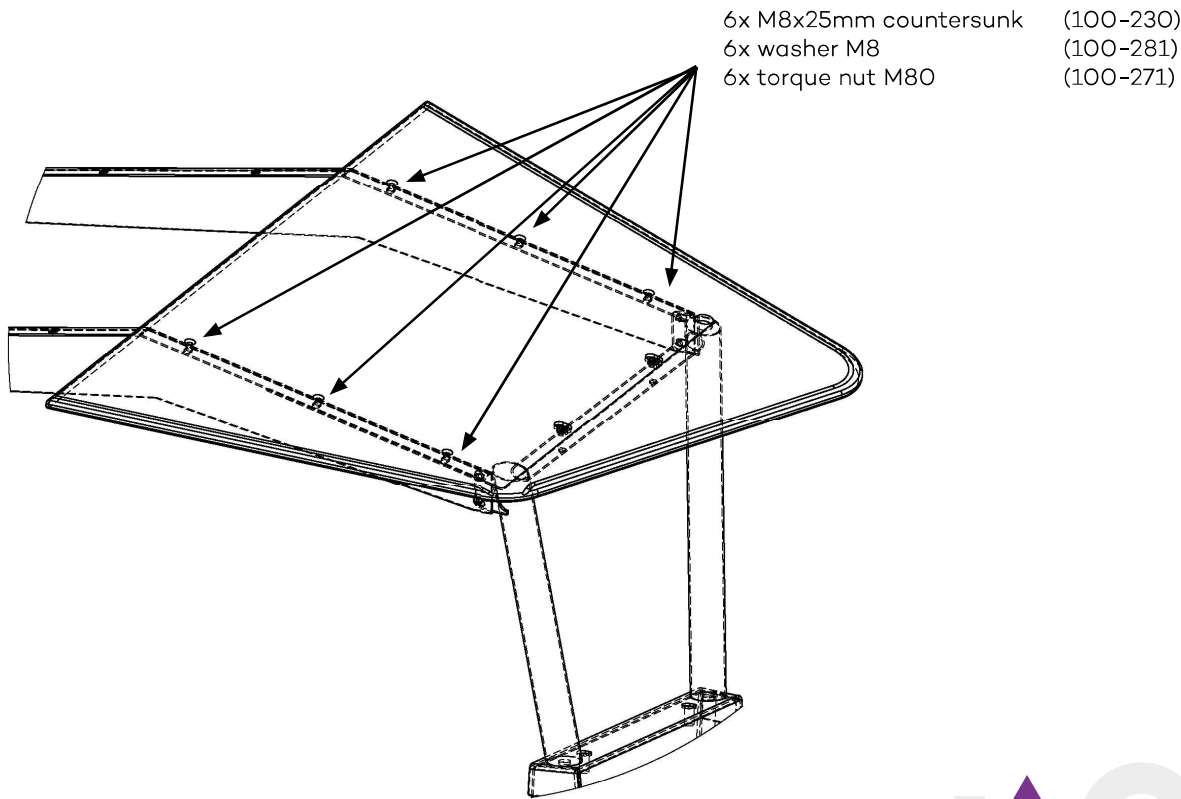
2. Install the second roof plate.
At least 2 persons are needed.
Do not tighten the bolts yet.
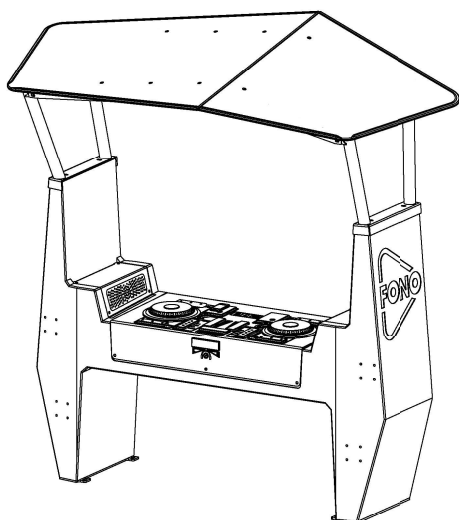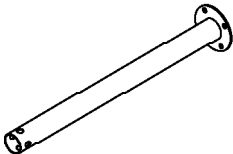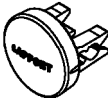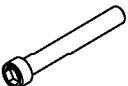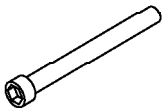
100-230	10 PCS
Hex bolt rec. head M8x25	

705684	1 PCS
Big roof plate	

100-271	10 PCS
Torque nut M8	

100-281	10 PCS
Washer M8	

10x M8x25mm countersunk   (100-231)
10x washer M8   (100-281)
10x torque nut M8   (100-271)
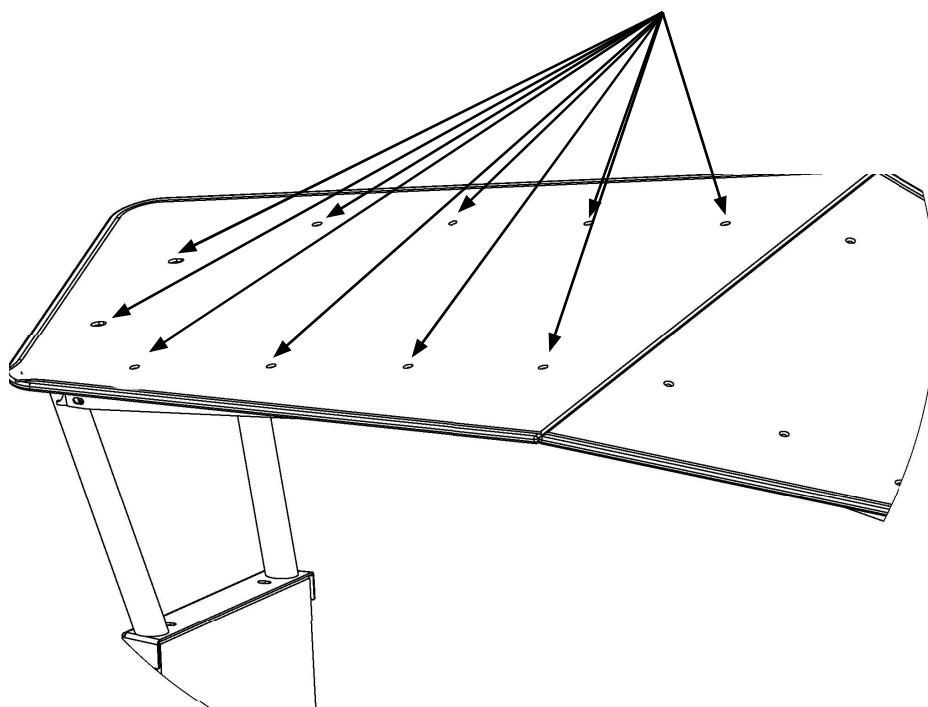
11 Installation: Seating tubes

123-410	4 PCS	123-510	4 PCS	123-430	4 PCS	69427	16 PCS	905774	28 PCS
seating tube front		Tube left back		Tube stand		Cloxx connector		Blue insert	

033414_1	16 PCS	041013_1	16 PCS	043563_1	32 PCS	100-214	32 PCS
Bolt M12x90		Bolt M12x120		Hex nut M12		Bolt M8x20 secured	

1. For each seating tube follow next steps: Place a half cloxx connector at the seating tube. Fasten the bolts like picture on the right.

Bolt positions:

2x Left back (LB)
2x Right Front (RF)

2x Left back (LB)
2x Right Front (RF)

M12 (O43563)

M12 x 90 (O33414) *
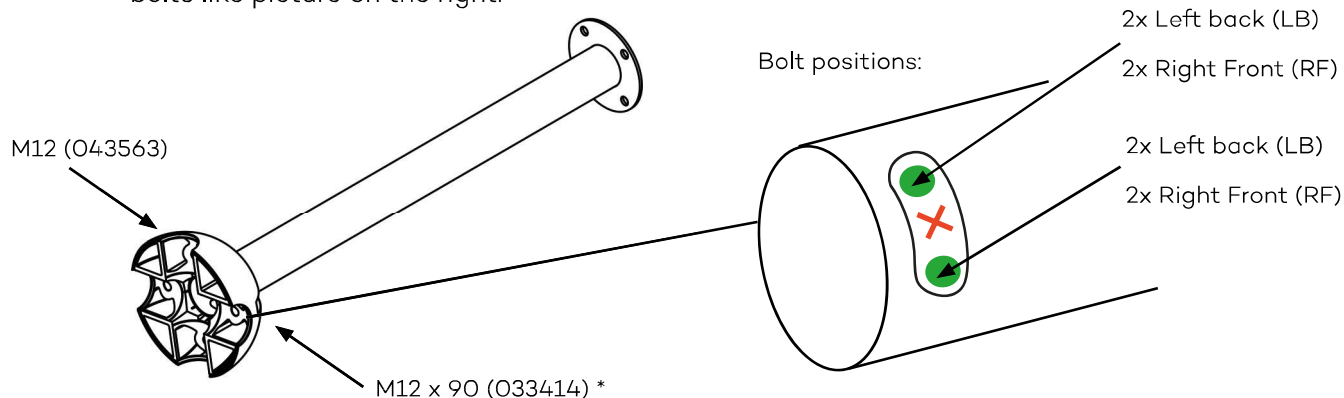
2. Repeat step 1 for the second seating tube.

3. Place vertical tube.

Make sure the fastening points of the foot are directed inside (from DJ point of view).
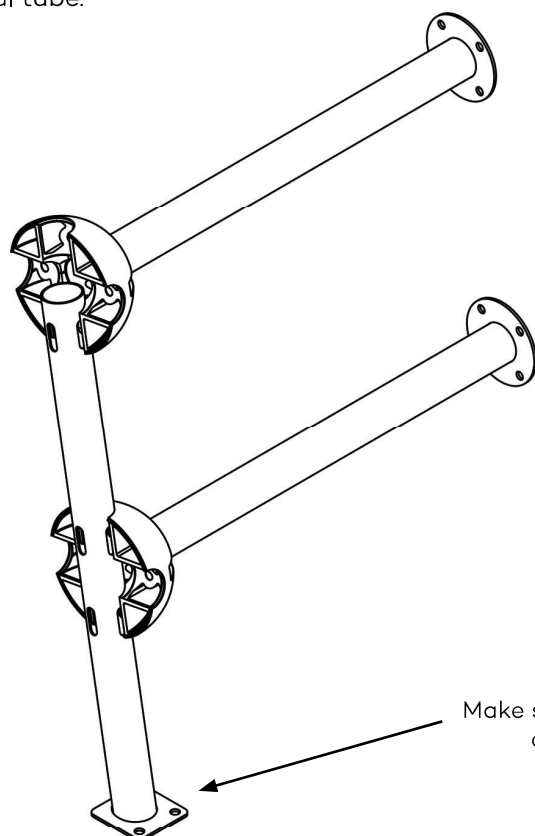
4. Fasten the other cloxx connectors and mount the vertical tube. Do not tighten the bolts yet!

4x M12 (O43563)

4x M12x120 (O41013)

4x M12 (O43563)

4x M12x120 (O41013)
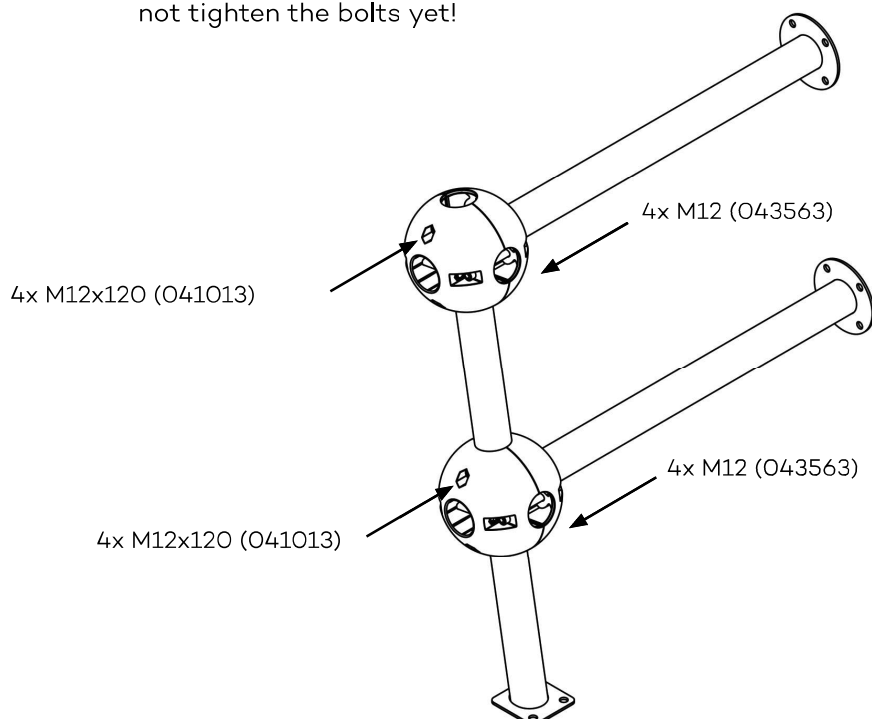
5. Connect the seating tubes to the concrete with M8x20 (100-214) bolts. Make sure seating tubes are placed at the right positions.

LF

LB

RF

M8x20 (100-214)

RB
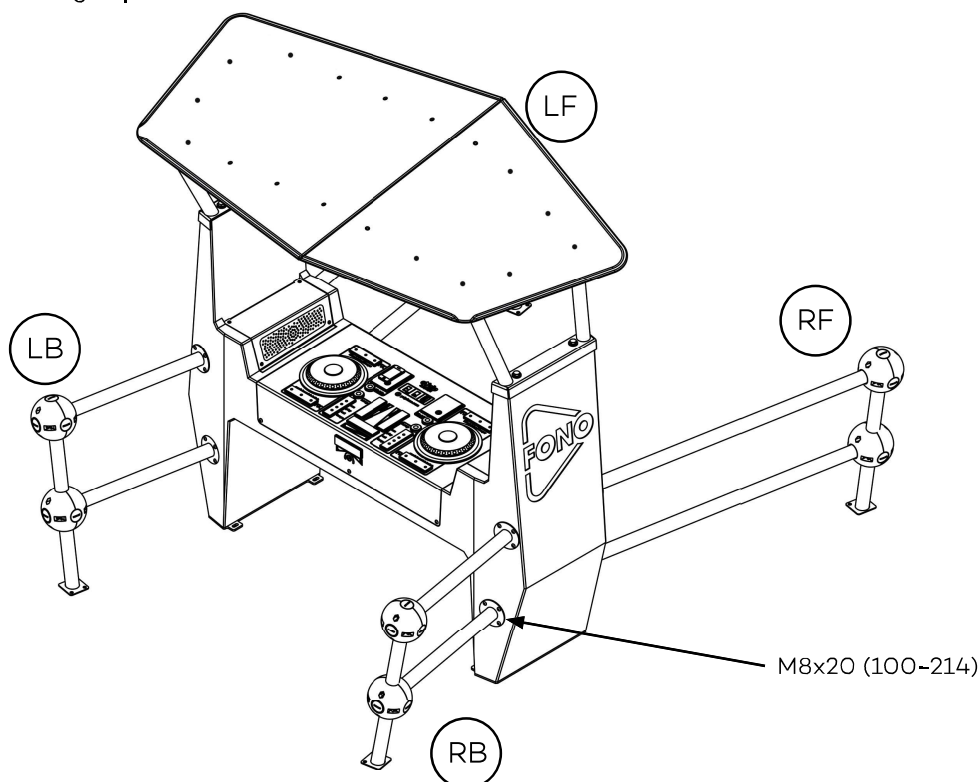
6. Set the foot level to the floor in the right position, and tighten all bolts to fix.

4x
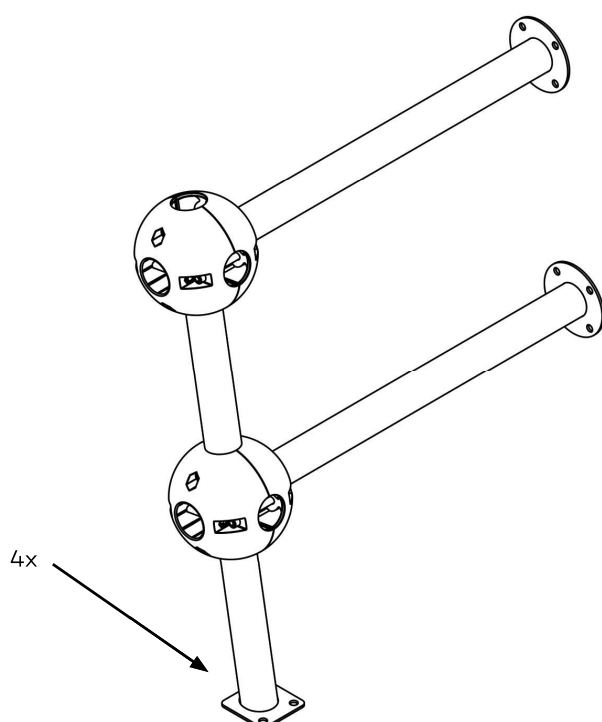
7. Place two horizontal bolts M12x90

M12 (043563)

M12 x 90 (033414)

M12 (043563)

M12 x 90 (033414)
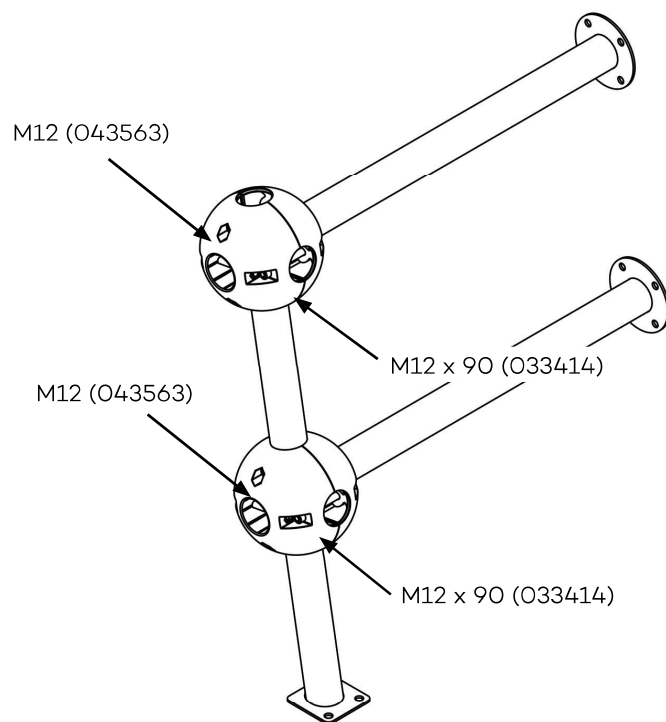
8. Put the blue inserts in the free holes.

905774	28 PCS
Blue insert	
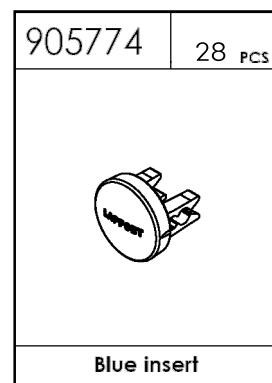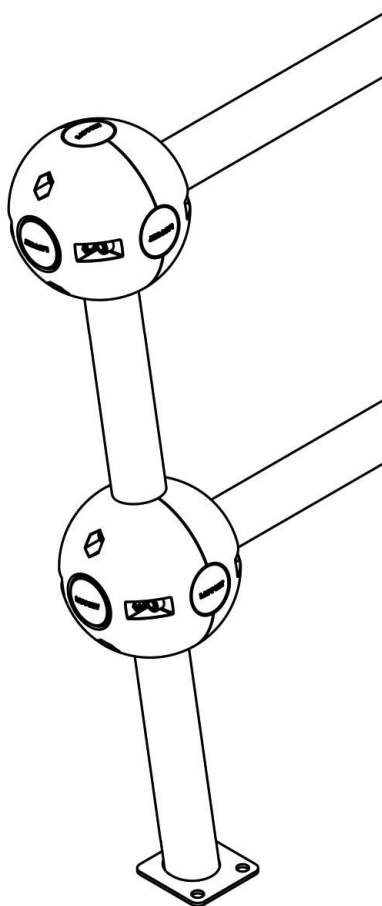
9. Bolt the Fono to the floor and tighten all bolts.

Fix to the floor.
        Preference: use
        M10 anchor bolts.
        Dependent on
        surface. Bolts
        are not included
        with Fono.
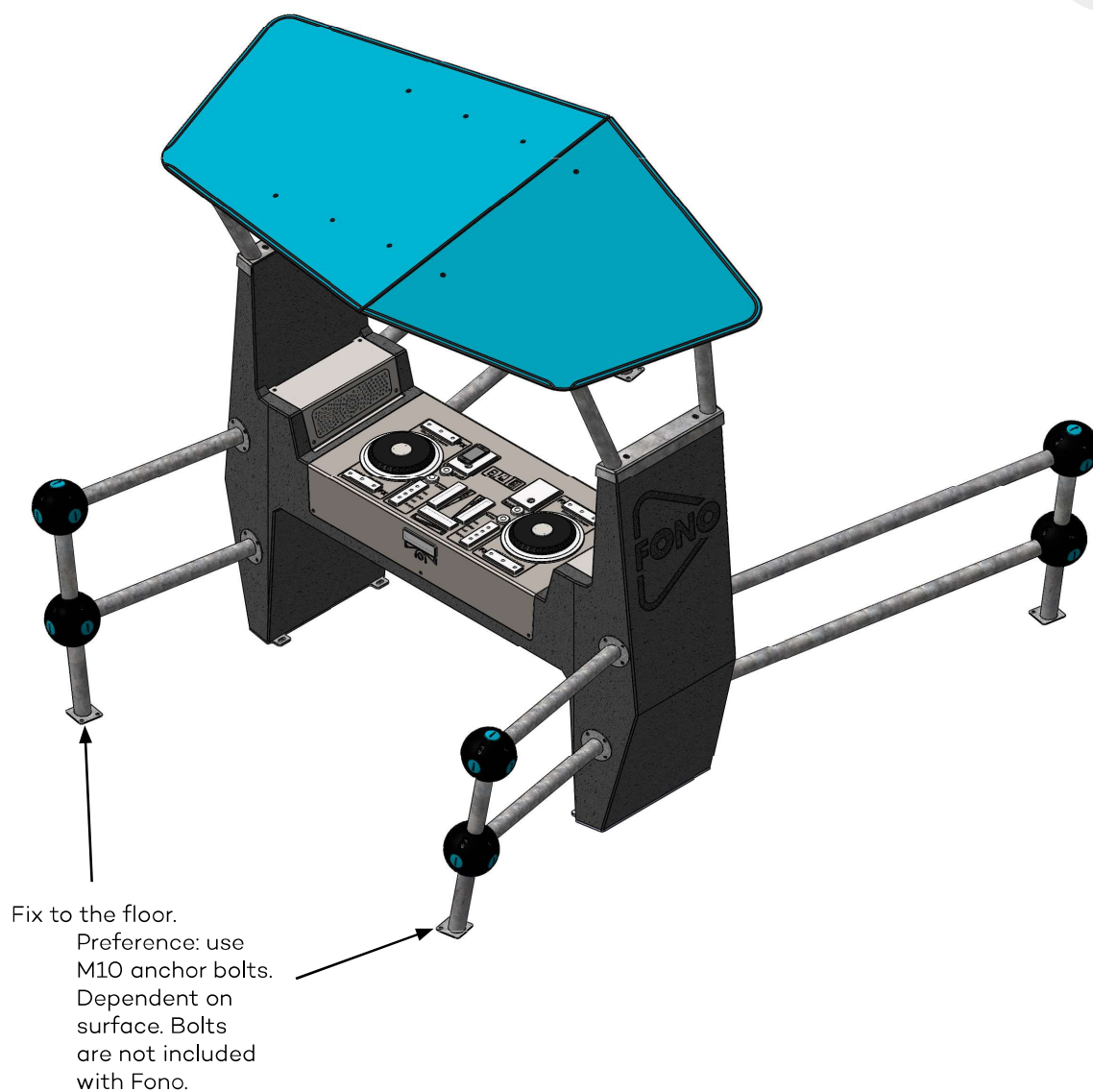
12 Electronics: Clock

Finish installation by setting the clock.

On/off

The Fono DJ table can be switched on and off with help of the internal clock. There are tree possible modes:

1. Manually ON (hand symbol visible on display, and text 'on'). The Fono will stay on.

2. Manually OFF (hand symbol visible on display, and text 'off'). The Fono will stay off.

3. Automatic (on time schedule) (text 'Auto' is visible in top-left corner of display, and text 'on')

With the – button (with the hand symbol next to it) on the clock you can switch between these

modes. Also use this button to switch the Fono off and on after an update.

Setting time schedule

When the Fono is set in Auto mode, it runs on a time schedule. The Fono can be switches on and off and certain times, for each day of the week. This is done by setting the clock inside the Fono.

! Warning ! Danger of cutting fingers
Be careful for your fingers when closing the hood! If not stopped from falling it closes very quickly giving severe hazard.

1. Open the Fono

2. Open the electronics box (grey plastic)

3. Look for the clock (white digital clock with display)

4. Press the MENU button until you see the setting PROG, and press OK

5. Choose the day(s) with the + and – and press OK (1= Monday, 2= Tuesday, etc. You can choose multiple days at the same time)

6. OK is blinking. Confirm by pressing OK again. If you want to change the day selection press – or ←

7. With + and – you can choose the setting: ON, OFF or Π. Confirm with OK (the Π setting is used for impulses of a short time, and is not advised for Fono).

8. Set the time, hours, with + and –. Confirm with OK.

9. Set the time, minutes, with + and -. Confirm with OK.

10. Set the other days if necessary, starting again with step 5.

11. When done, press MENU.

12. Close the electronics box, and close the Fono

For more detailed settings look for the product manual of the clock: Hager EG103V.**Winter / summer time change**

1. Press the MENU button until you see the setting time, and press OK

2. Modify the day, month, year, the hour and the minutes using + or – and confirm with OK.

3. The time switch next suggests the winter / summer time changes.

4. Select the type of change desired using + or – and confirm with OK.

The type of change depends on the geographical zone. Types available:

Type	Start of time change Summer	Start of time change Winter	Zone of application
Euro *	Last Sunday of March	Last Sunday of October	European Union
USA	First Sunday of April	Last Sunday of October	North America
GB	Last Sunday of March	Fourth Sunday of October	Only for the United Kingdom
AUS	Last Sunday of October	Last Sunday of March	Australia
USER	Date freely programmed	Date freely programmed	
No	No change	No change	

*Type according defect

The change always takes place between 2:00 and 3:00 a.m. When the USER type is selected:

5. Enter the day then the month of the date of change of the summer time (+ 1hour) with + or – and confirm with OK.

6. Enter the day then the month of the date of change of the winter time (-1hour) with + or – and press OK.

The time switch will check which days of which weeks correspond to these dates and will apply changes to the same periods for the following years independently of the date.

13 Electronics: PCB connection
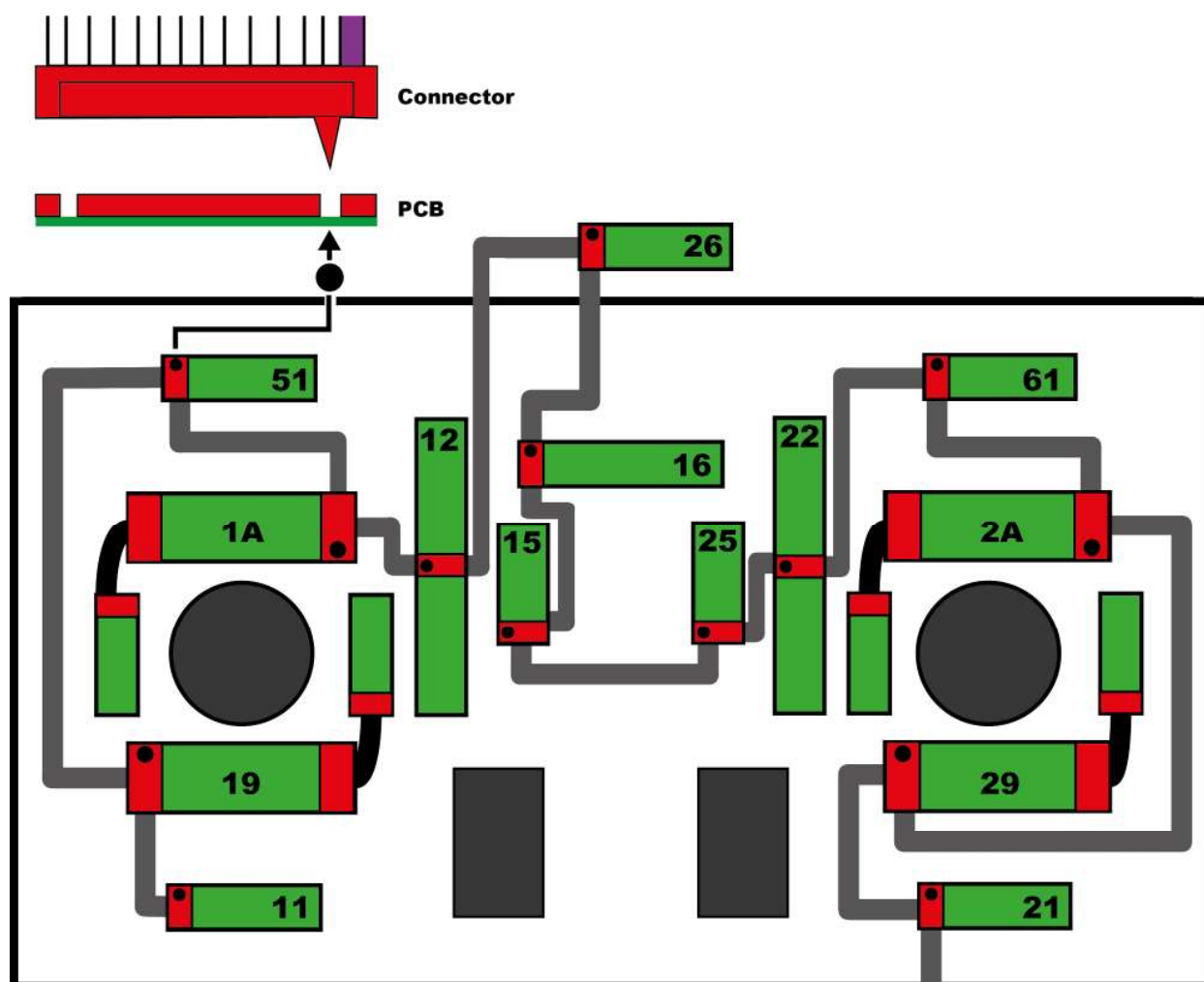
The PCB's (Printed Circuit Boards) are connected in a specific order. Make sure to connect the connector on the right side as shown above.

14 Electronics: mains powered (AC)

The Fono comes to you with cables connected. Electronics board inside the Fono:

Right speaker

headphone output

1. Amplifier KAC-PS702EX

Amplifies the sound to the speakers. To set the volume use a screwdriver to turn the INPUT SENSITIVITY.

2. Junction box

For safely. Connects the incoming (ground) cable to the power cable of the Fono going to the power supply.

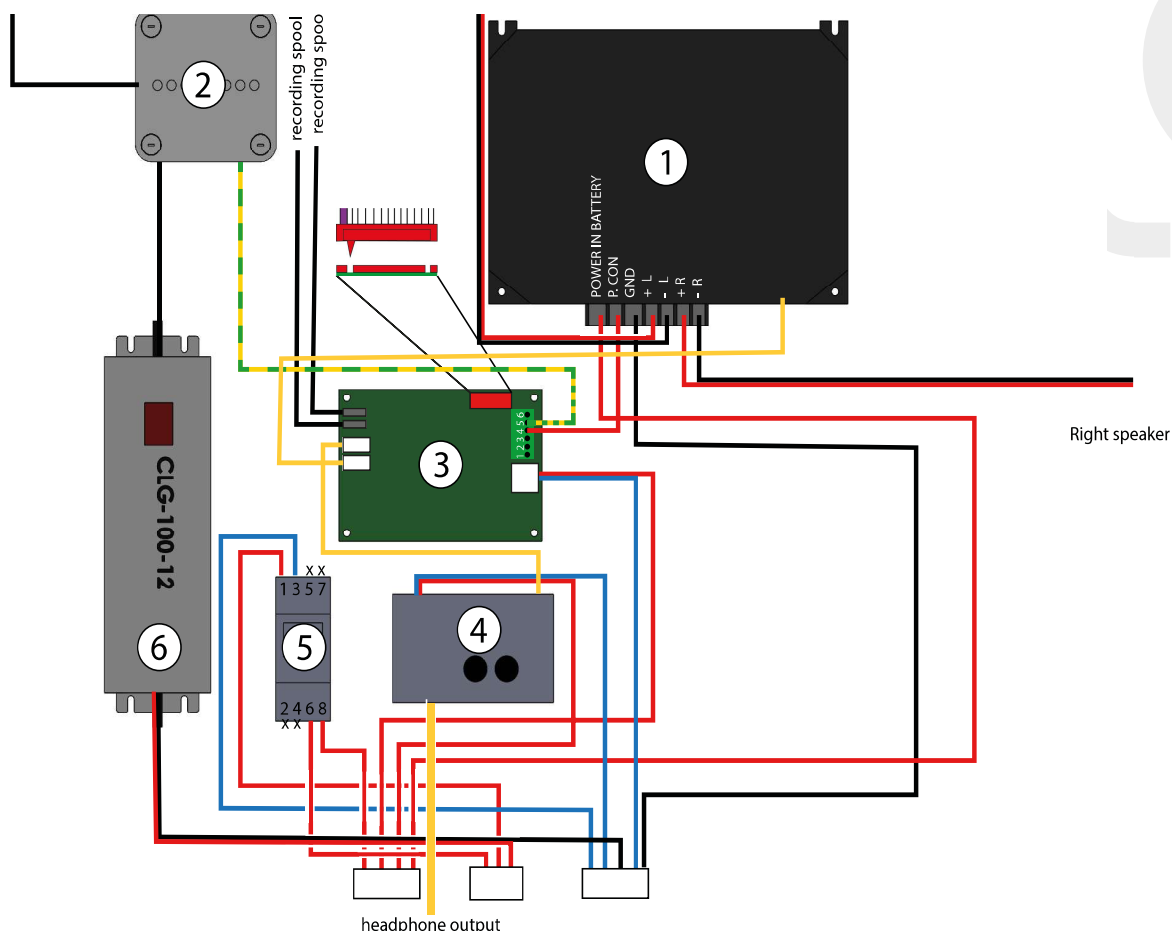## 3. Fono main computer

The 'brains' of the Fono. This controls how the Fono works. Runs the software.

4. Headphone amplifier Micromon MA400

To amplify the sound to the headphone jack. Turn the GAIN knob on the left side of the amplifier to change the volume of the headphone.

5. Clock Hager EG103V

Switches the Fono on and off on given times each day. See Electronics: Clock (page 5) for more information.

6. Power supply CLG-100-12

Transforms the 230V power from the power cable to a 12V power that can be safely used by the Fono

15 Final remarks

Environment

Yalp is committed to sustainable business practices, values and standards are of paramount importance. The social commitment begins with our employees, but also in dealing with you. As a supplier of play sets and sports products, we are aware of the social role that we play. We take responsibility on the core themes of:

- ISO 9001:2008-certified quality management system
- ISO 14001:2004-certified environmental management system.

Maintenance

For maintenance we refer to our maintanance instruction.

Service and support

If you have any questions, please contact us at:

Yalp Support Team

E;   service@yalp.nl

T;   +31 (0)547 289 410

Have fun playing the Fono!

16 Versions

Version/Date:	Adjustments
v2/16-12-2015	• Added picture of power cable • Added falling hight
v2.1/26-07-2017	• P. 28 Maintenance: Added 'such as 3M stainless steel cleaner. This cleans the surface, but also leaves a protecting layer' and replaced 'at least once a year' for 'preferably four times a year'
v2.2/01-08-2017	• Removed chapter 15 'Warranty'
v2.3/25-08-2017	• Replaced M16x45 for M16x25 (product card 100-248) p. 5 (1x) and p. 13 (2x)
v2.4/12-12-2017	• Small adjustments on text and layout, added information on packaging, new wiring schedule and amplifier
v2.5/27-02-2018	• Added warning on page 23 and page 23 for finger entrapment
v2.6/28-02-2018	• Added dimensions in Imperial units • Replaced this table with a structured table • Replaced 'toys' on page 27 with 'play sets' • Removed maintenance and revered to product manual