



## TTC Speaker Cabinet Flat Pack



Assembly Instructions for

- TTC 108 BA Flat-Pack
- TTC 110 BA Flat-Pack
- TTC 112 BA Flat Pack

Version 1.0

This kit contains all parts to build a complete high quality loudspeaker cabinet for Guitar speakers in the following design:

- Loudspeaker front mounted
- Baffle glued
- Rear panel open
- Rear panels glued
- Baffle not covered

The construction of this speaker cabinet is simple but functional, therefore no special tools are needed for assembly, as most components are simply glued together.

Nevertheless, adaptations and modifications such as a screwed baffle or screwed rear panels are possible. Additional components and / or tools may be needed for this.

In the following text, any modification possibilities will be pointed out at the appropriate place.

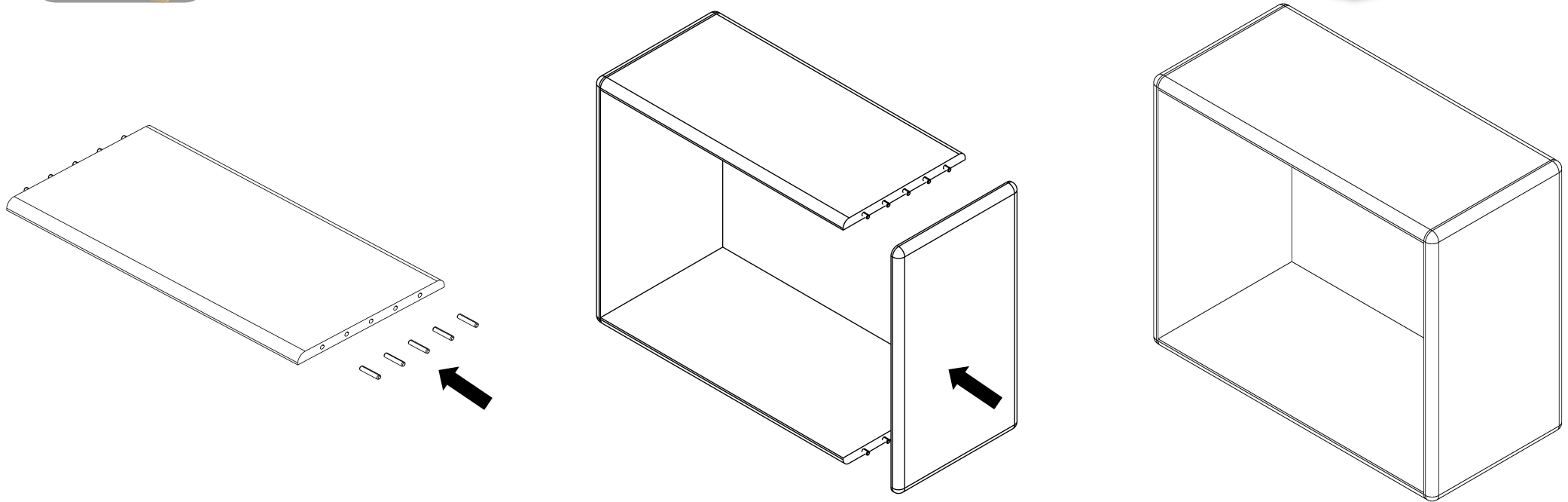
Recommended tools:

- Hammer
- Protractor
- Screw clamp
- Screwdriver, better cordless screwdriver
- Tape measure

...as well as time and quiet



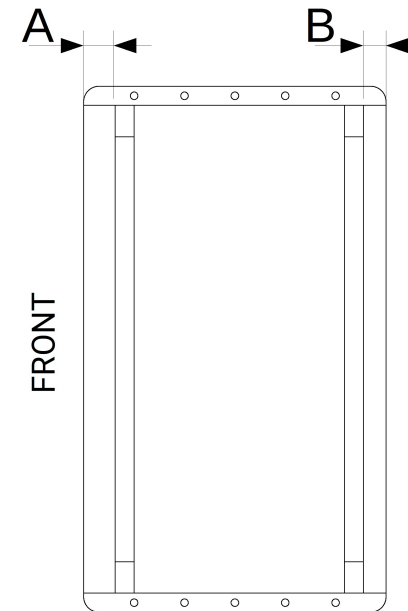
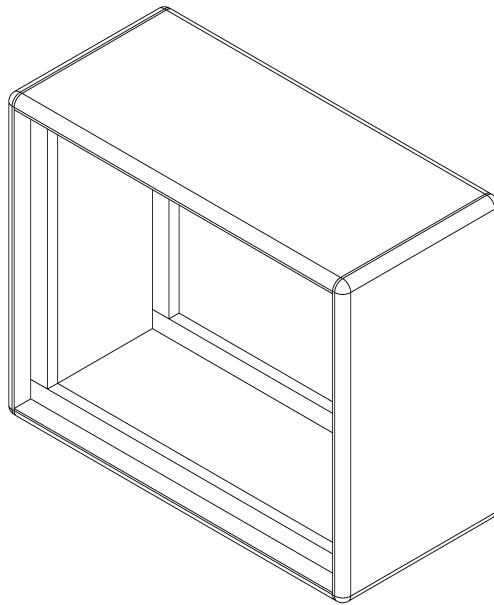
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1. Glue the wooden dowels in the holes of the upper and lower parts and apply glue to the front sides.
2. Apply glue to the holes in the side parts and then assemble the individual parts. If necessary, tap together lightly with a hammer until there are no gaps.
3. **IMPORTANT:** All sides must be at a 90-degree angle to each other. Check with protractor (or measure across diagonals) and align as needed. Ideally, use a screw clamp to force the sides together until the glue is dried. Alternatively, place the corpus on one of the sides and weight it down, but always ensure the sides are at a right angle to each other. Then allow the glue to dry well before proceeding with the next steps.  
The drying time depends on the glue used and the ambient temperature.



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4. In this step, the position of the batten supports must first be determined.

For the rear batten, a gap of 18 mm should be maintained, dimension: B in the sketch.

The gap for the front batten depends on the type of speaker mounting. Since this description assumes that the speaker is mounted from the front, dimension A = 30 mm from the front edge applies.

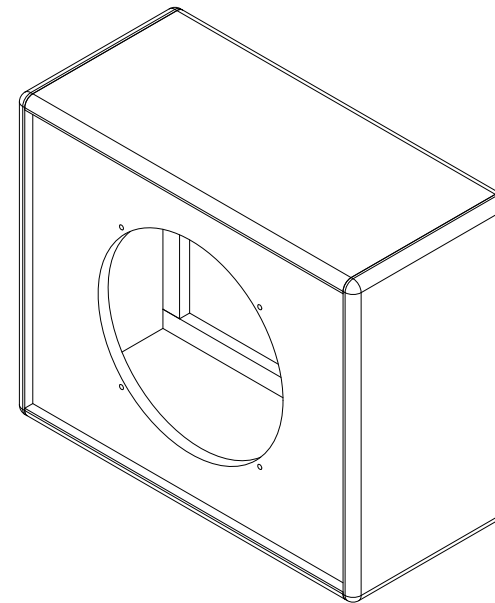
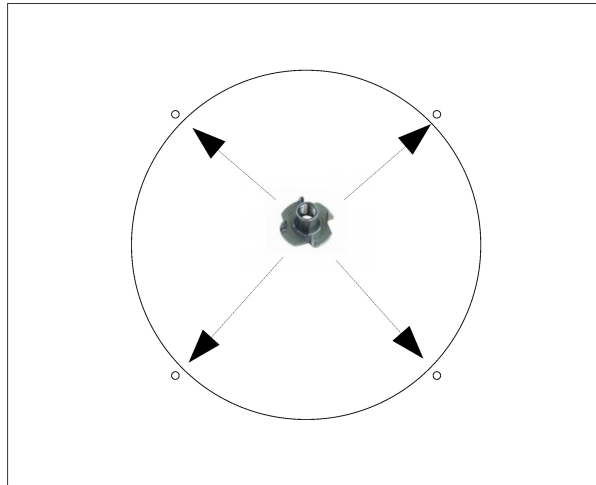
If a covering frame is used (see corresponding section), then dimension A should be at least 45 mm.

5. Mounting of the batten supports:

Measure and mark the exact position of the battens in the housing, then glue the battens in place. Make sure that the battens run parallel to the outer edge, otherwise the baffle cannot be mounted in straight line.

Allow the glue to dry well after each step so that the battens do not shift or fall out.

The battens must all fit tightly, as they will later have to support the baffle with speakers and the rear panels.



6. Prepare the baffle: Before mounting the baffle, the t-nuts must be inserted into the intended holes with a hammer.

7. Mounting the baffle: The easiest way to mount the baffle is to glue it onto the retaining battens. This method is also recommended for beginners without extensive tools and / or experience as it is the safest way. It is important that sufficient glue is applied to the battens and that the baffle is centered. Until the glue has dried, place the box on its back and weigh down the baffle.

If you are a skilled craftsman and want a removable baffle, you can also fasten it with screws. To do this, wood screws with a length of about 25mm are needed (not included) which are then screwed from the inside through the battens into the baffle. Make sure that the baffle is firmly mounted.

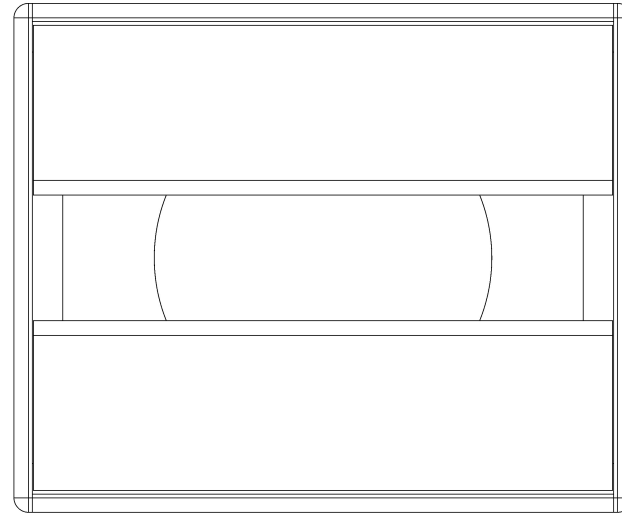
It is recommended to use a cordless screwdriver.

And remember: If the baffle is screwed, the back panels must also be screwed.

Tip: Pre-drilling the holes makes the work much easier.



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The way the rear panels are mounted is based on the way the speaker is mounted. If the speaker is mounted from the front (standard), then the back panels can be glued without any problems. If, on the other hand, the loudspeaker is mounted from the inside on the baffle, the rear panels must be screwed in place so that they can be removed again, otherwise you can't reach the speaker.

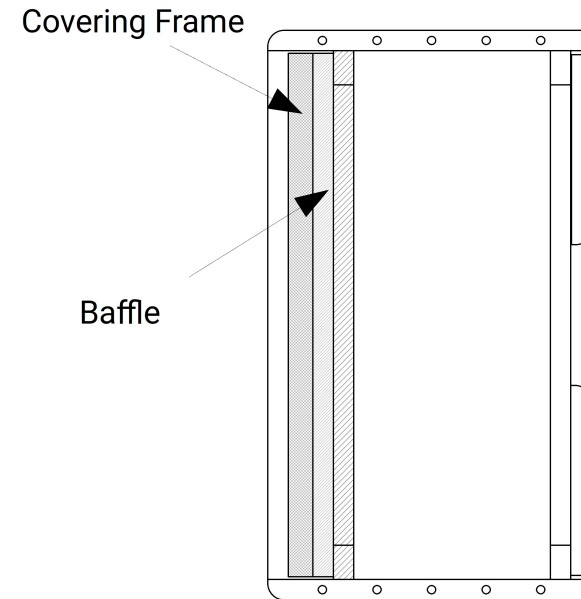
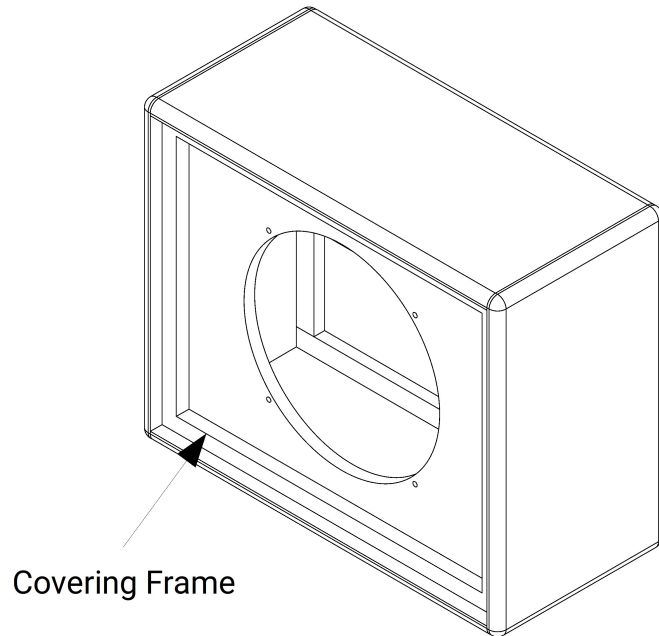
Since the basic concept of this kit is a front mounted speaker, the rear panels can be glued as well as they do not have to be removed to mount the speaker.

One of the rear panels also has a hole for the connection terminal. It is recommended to mount this panel on top.

After successful assembly, the finished speaker can be fitted with rubber pads, a carrying handle and protective corners. Any two-legged protective corners, which are designed for a corner radius of 12 mm can be used.



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### The issue of covering the baffle

If you want to cover the baffle with grill cloth, it must be reduced in size so that installation in the box is still possible.

The degree of reduction depends on the grillcloth used and its material thickness. If piping is also to be placed around the baffle, further reduction is necessary, since piping is usually also very thick.

This work is best done with a circular saw, which is probably not possible for several users, that do not own a circular saw. In such cases the best solution might be to mount the covering on a so-called covering frame, rather than directly over the baffle. Such a covering frame is much easier to manufacture and can be adjusted to the required dimensions. For the construction of the frame only four battens are needed, which are cut to the required size and then assembled. Such battens are usually easy to obtain and the cutting can be done with a normal hand saw.



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... and here a few more impressions



Components CNC milled from birch plywood.



Ready built kit.



View from the rear with screwed back panels

Final notes:

- At a minimum, the surface should be treated with wood-oil to protect it from environmental conditions.
- UV/sunlight may cause discoloration.
- This speaker box is made of wood, a natural product. Deviations in color and structure cannot be ruled out.
- Made in Germany.

We wish you a lot of fun with the assembly and even more fun with the use of this kit



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Included with delivery:



Wooden components



1 x connection terminal



3 x screws for terminal



20 x wooden dowels



1 x wood glue



4 x T-nut



4 x threaded screws