

## Australian Picnic Table Assembly Guide



## Picnic table specification

The table top is 13.3 cm (5.2 inches) by 6.3 cm (2.5 inches) in size. The table is 6.3 cm (2.5 inches) high. The table consists of a lot of planks and pins. The pins and holes make it easier to glue the parts together.

This is how the assembled picnic table looks like.

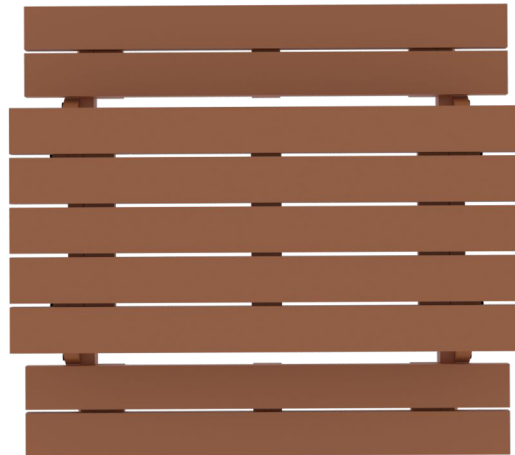
Front view



Side view



Top view



### 3D print of the picnic table

The STL files for the 3D print of the picnic table are available for download at Thingiverse. Feel free to choose your favourite colors for the different parts of the picnic table. However, using a brown color for the planks and bars gives the most realistic table, as it simulates wood. You can also use any dark color to simulate recycled plastic.

### Required tools for the assembly

- Plastic glue suitable for the material you are using. A viscous glue with a hardening time of more than 5 minutes is best.

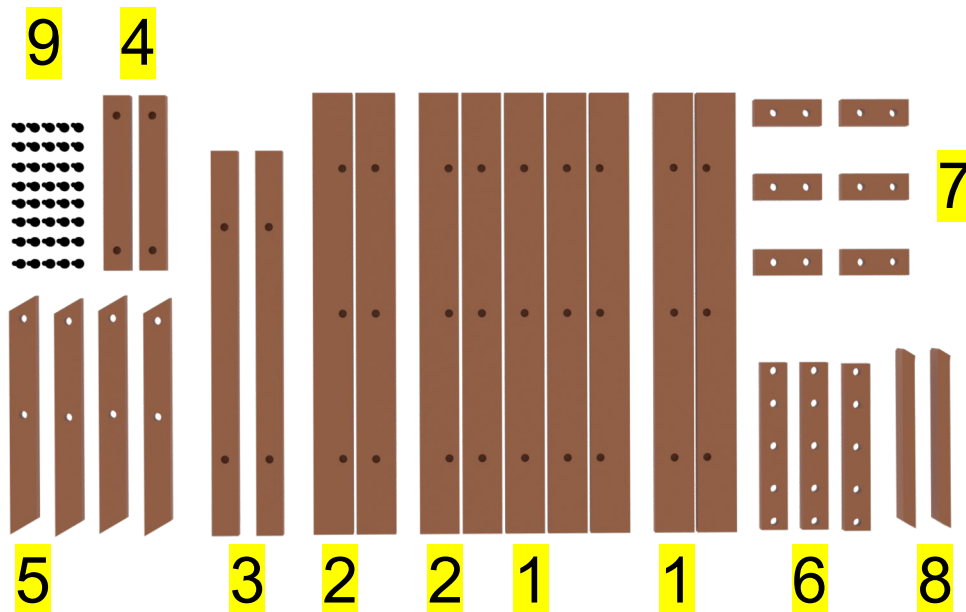
## List of STL files

The STL files can be downloaded from Thingiverse. Multiply the items in your slicer program if required. The number of required items is listed in column „Number of items required“.

STL file name	Description	Number of items required
Table pin V1.stl	Pins for easy assembly.	40
Table seat planks V1.stl	2 seat planks for one seat.	2
Table seat support V1.stl	The seat on each side of the table is supported by 3 small planks. The 3 small planks for one side are within the STL file.	2
Table side 1 V1.stl	Legs of the table of one side. There are 2 horizontal planks and 2 leg planks. The 2 horizontal planks are within the STL file.	2
Table side 2 V1.stl	Legs of the table of one side. There are 2 horizontal planks and 2 leg planks. The 2 leg planks are within the STL file.	2
Table support V1.stl	For more stiffness of the table the lower horizontal side plank is connected to the table top with 2 planks. The 2 planks are within the STL file.	1
Table top planks V1.stl	The 5 planks of the table top.	1
Table top support V1.stl	The 4 table top planks are supported by 3 smaller planks which are within the STL file.	1

## List of items to print

After the print of all STL files you should have the following items.



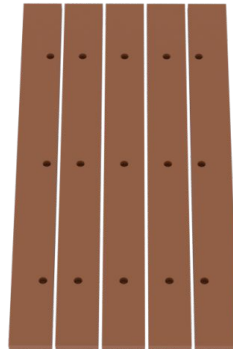
### Part list

- 1 : Plank type A symmetric (5 x)
- 2 : Plank type B non-symmetric (4 x)
- 3 : Horizontal long side bar (2 x)
- 4 : Horizontal short side bar (2 x)
- 5 : Inclined side bar (4 x)
- 6 : Table top support bar (3 x)
- 7 : Seat support bar (6 x)
- 8 : Inclined main support (2 x)
- 9 : Pin (40 x)

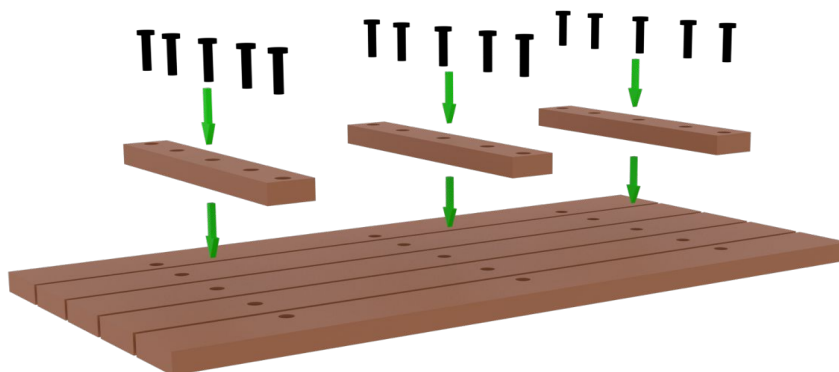
When you have printed all these parts you are ready for the assembly.

### Assembly of the top planks

Place the planks type A (1) and type B (2) in front of you on a flat surface. The holes are facing upwards. The 3 inner planks are type A and the 2 outer planks are type B.



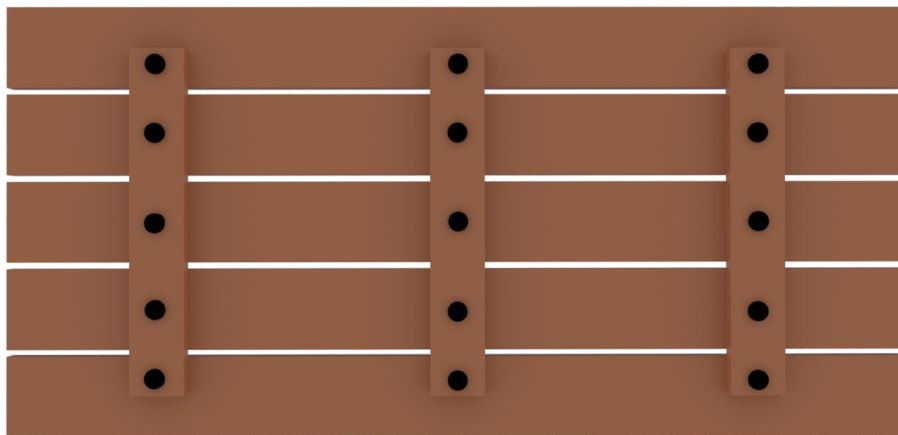
Grab the 3 table top support bars (6) and put glue on one side of each bar. Also put a bit of glue on the pins. Glue everything together as shown in the picture below.



When you are ready the assembly should look like this.

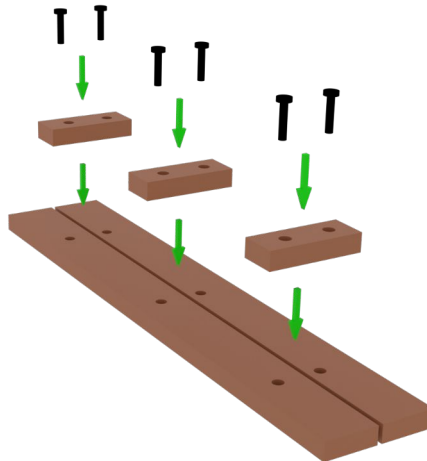


The planks should be parallel and should have an equal distance. Let the glue dry.

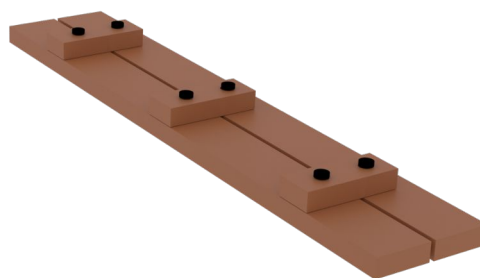


## Assembly of the seat planks

Place a plank type A (1) and a plank type B (2) next to each other on a flat surface, exactly as shown on the picture below. The holes are facing upwards. Grab 3 seat support bars (7) and put glue on one side of each bar. Also put a bit of glue on the pins. Glue everything together as shown in the picture below.



When you are ready the assembly should look like this.



Please note that the support bars are flush with the side of plank A.

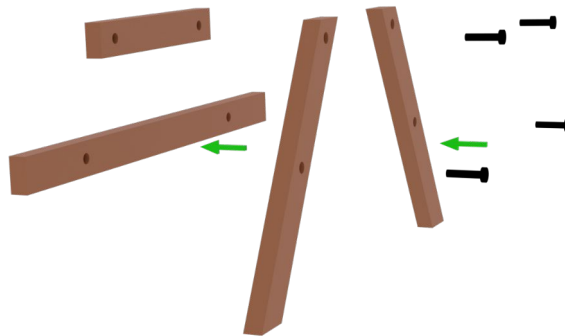
This assembly is required twice.



### Assembly of the side supports

Place the horizontal long side bar (3) and the horizontal short side bar (4) on a flat surface. The holes are facing upwards.

Grab 2 inclined side bars (5) and glue them on the horizontal bars as shown in the picture below.



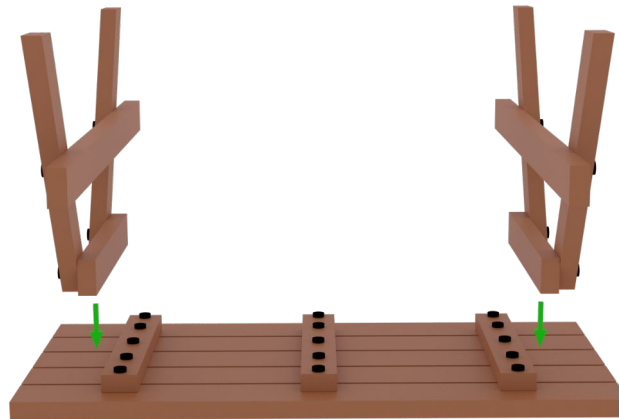
When you are ready the assembly should look like this.



This assembly is required twice.

### Glue the side supports to the table top

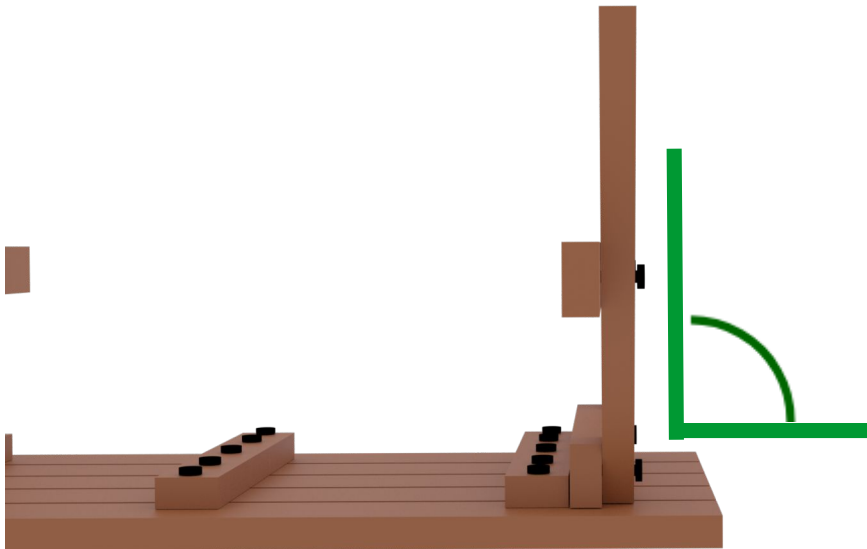
Place the already assembled table top on a flat surface, exactly as shown on the picture below. The 3 support bars with the pins are facing upwards. Grab the side supports and glue them to the table top.



When you are ready the assembly should look like this.



Make sure that the side supports are rectangular to the table top.



### Glue the seats to the table

The seats are sitting on the horizontal long side bars (3).



Glue the seats as shown in the picture below.



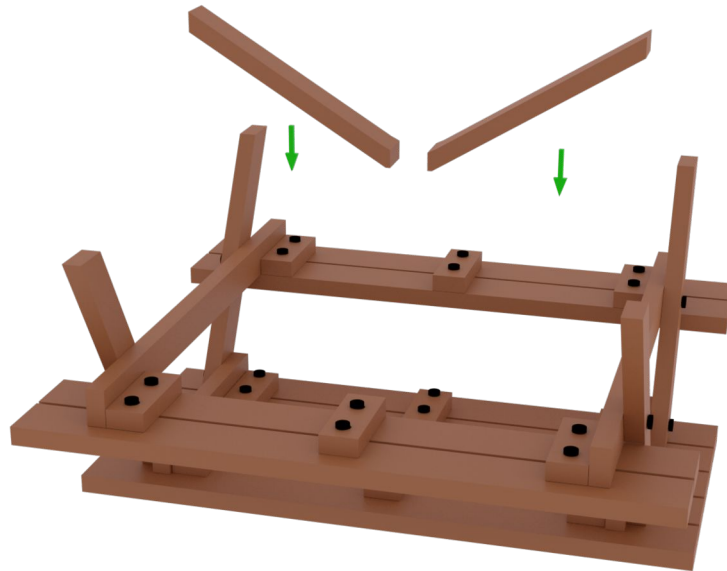
The picture below shows a side view of the seat.



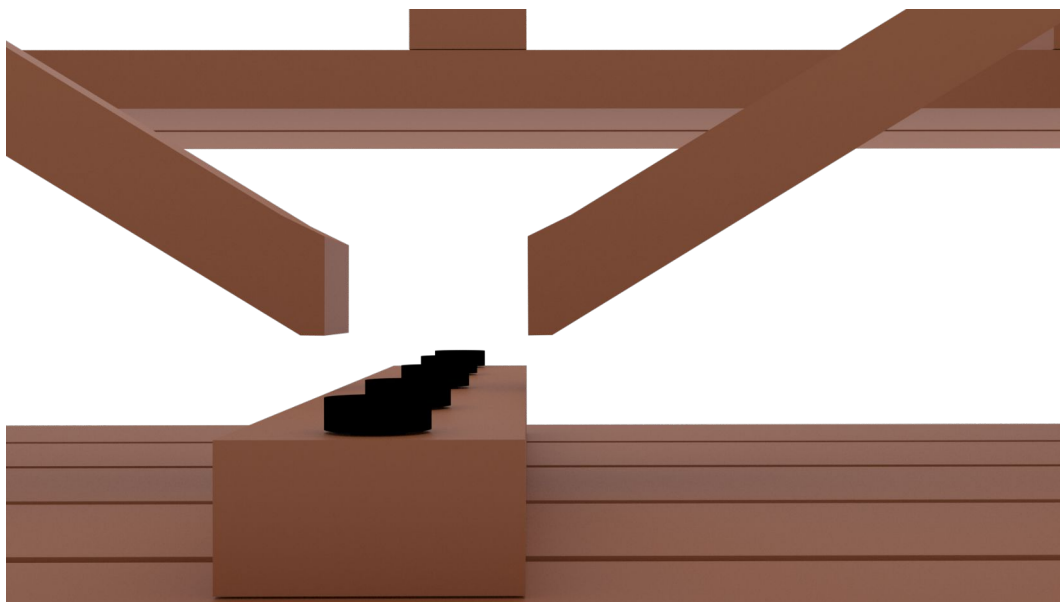
Also glue the seat on the other side of the table.

**Final step: Glue the inclined main support bars**

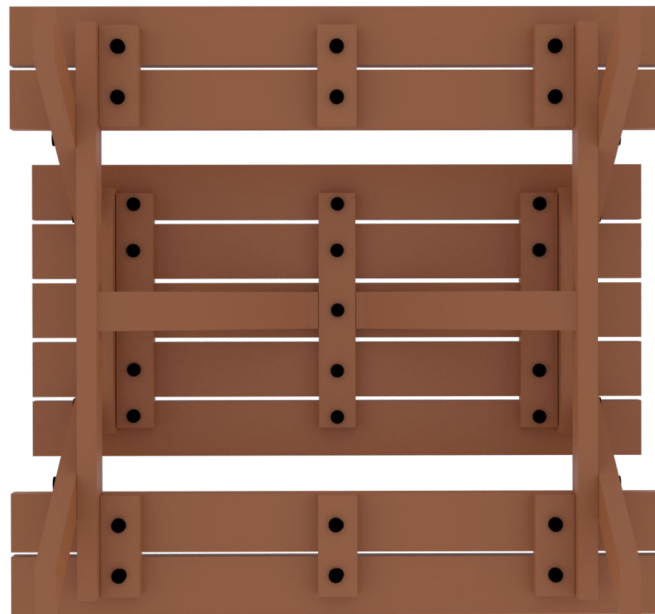
The main support bars give the table more stability. These bars are not symmetric.



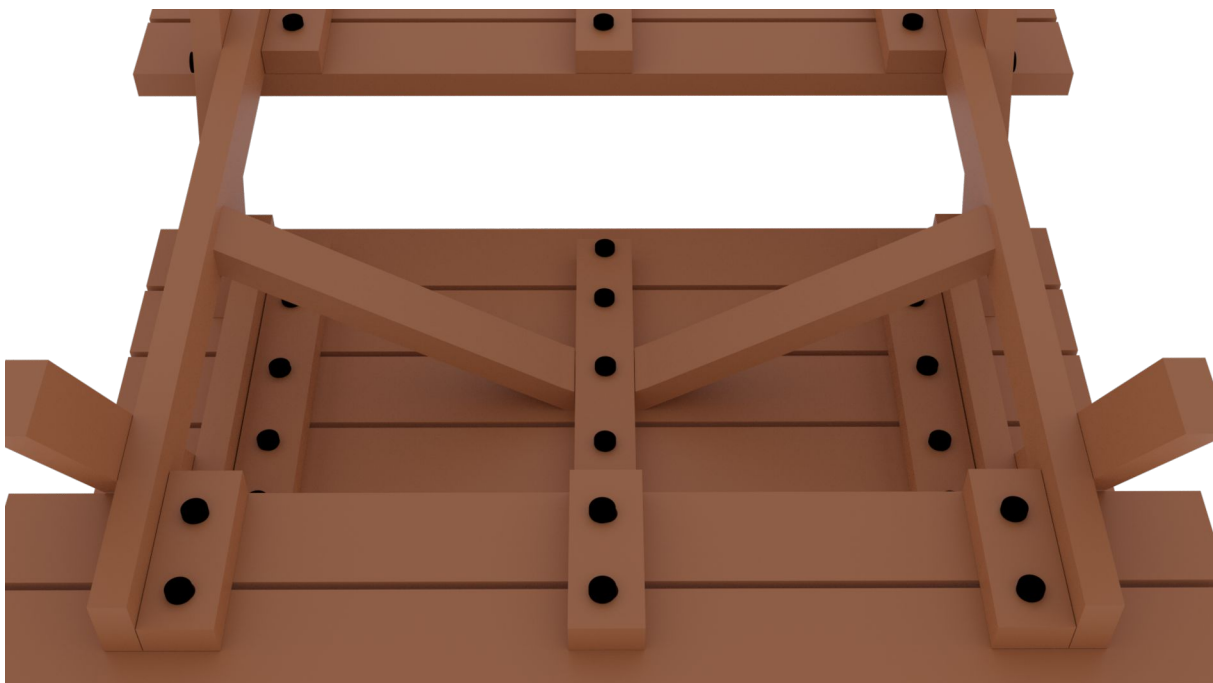
Observe the orientation of the bars as shown in the picture below.



Top view of the main support bars.



The picture below shows the exact location of the main support bars.



Congratulation, you have now completed the assembly of the Australian picnic table.



**Revision Information**

<b>Version</b>	<b>Date</b>	<b>Author</b>	<b>Change description</b>
01	2022-03-29	Axel Ehrich	Initial version of this document.