Solar tricycle C-6138

Check all parts before beginning assembly

Required tools for assembling the Tricycle

Drill
Ø4 mm wood drill
Ø3 mm metal drill bit
metal file
Sandpaper 120 gr.
Taco Sanding
Screwdriver star tip
Flat-blade screwdriver
Flat nose pliers
Workshop vise
M3 nut spanner or wrench
Allen wrench 1.5 mm
White glue or glue gun
Soldering iron and tin
Pencil

Material which is included with this kit

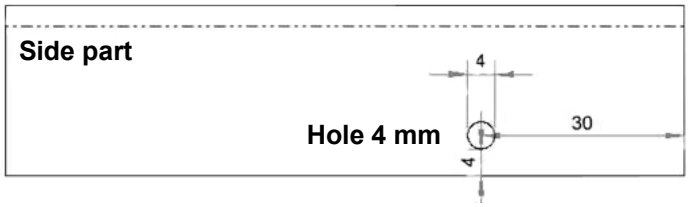
Nº	Quantity	Description	Application
1	1	20 mm plastic spacer	(Steering mechanism)
2	1	Axis 3 x 80 mm	(Rear axle)
3	1	Self-tapping screw CH 2,9 x 6,5, slotted head	(Mounting bracket)
4	1	Double gear 48/12, orange - Drill 2.9	(Drive motor)
5	1	M3 blind nut	(Fixing handlebars)
6	1	Pine strip 80 x 10 x 10 mm	(Longitudinal bar)
7	4	Double-sided adhesive pads	
8	4	Flywheels 36 mm	(Front and rear wheels)
9	4	Screws M3 x 5mm star	(Steering mechanism)
10	1	85mm perforated strip = 17 holes	(Stirrup)
11	1	115mm perforated strip = 23 holes	(Fork)
12	1	55mm perforated strip = 11 holes	(Stabilizer inner fork)
13	2	Asparagus = headless screws M3 x 4 mm	(Fixing handlebars)
14	1	Brass tube Ø 4mm x 8mm long	(Cap longitudinal bar)
15	2	Brass tubes Ø 4 mm long x 5.5 mm	(Slide rear axle)
16	1	Brass threaded piece	(Support handle bars)

Tips before starting the assembly:

It is advisable to mount the kit on a board or cardboard.
To fix the pieces of wood can be used white wood glue with a brush or glue gun.
Keep in mind that will have to wait for the woods to continue with the assembly are set.

How to build tricycle

A) First, using a drill 4mm holes in each of the two side portions poplar board 100 x 25 x 3 m are made.

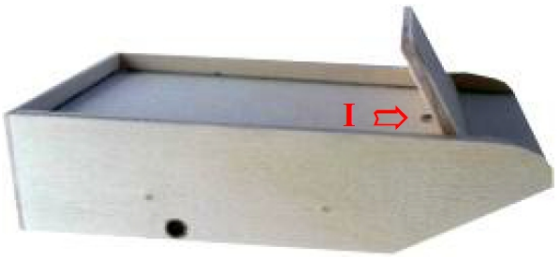


B) Mark with a pencil in the two side pieces of wood 100 x 25 x 3mm.
You can cut the two pieces together to make them equal.
After cutting the pieces, sand these pieces so there are no splinters.

C) Check also with the stylus, the top of both sides and the back piece of 56 x 25 x 3 mm, a straight line to 4 mm from the edge, as you can see in the picture above.

D) Glue the wooden board 100 x 50 x 3 mm in the marked line.
Remember that the area of the drill is to be near the rear wall.

E) When you see that the woods are united and dry, you can proceed to sanding the workpiece



F) It has sanding the upper edge of the front bottom piece (50 x 25 x 3 mm) 60 °, to fit well with the top board.

G) With the second poplar board (50 x 25 x 3 mm), the seat will be built.

H) Sand the lower edge about 30 degrees, so that the backrest is tilted backwards. Sand also both corners and round them at the top of the backrest.

I) Before placing the backup, remember to make a 4mm hole centered on the board, right next to the back, to make the connection of the solar cell (can see the mark in the drawing on the previous page) .

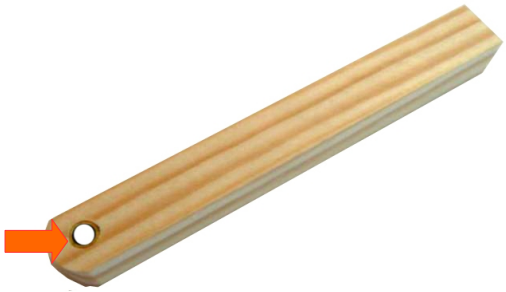
J) support is pasted to 76 mm in the rear.

How to build a straight bar Tricycle

First you have to prepare the pine 10 x 10 x 80 mm, to form the straight bar going to the tricycle.

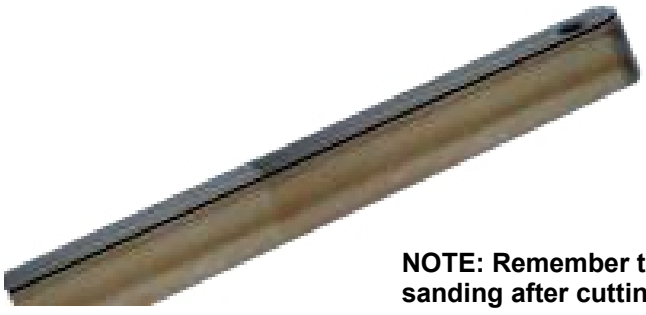
A) With the drill will Ø4 mm hole. With a pencil, mark the center of the wood. The hole must be 5 mm from the end of the bar and 5mm corner (see image below).

B) then placed in the hole he has done, brass cap Ø4 to 8 mm.



C) you have to sand the end of the bar where we put on the cap to be rounded (see picture below).

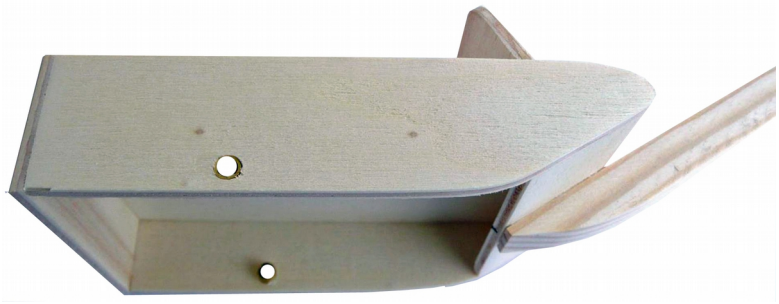
D) Also sand the other end of the bar, as shown in the drawing.



NOTE: Remember to always sanding after cutting wood.

E) When we have completed the bar, you need to dial the center of the wood where we're going to stick wood. Also mark a signal to 5.5 cm from the end of this piece of wood.

F) The following will stick wood, so that on leaving 5.5 cm beyond the base of the tricycle.



G) When the glue is dry and should be sanded all corners well.

How to build engine operation

A) We must put caps brass 4 mm x 5.5 mm. The insert in the two holes that we have in the side parts of the base of the tricycle.

B) will place the shaft 3 x 80 mm in one of the two caps. Then double gear 48/12 with hole Ø2,9mm. Watch the position of the double gear: the small gear must point inward (see picture below)

C) Centre the shaft firmly into place.

D) Inserting the pinion 12 teeth and 1.9 mm in the drill motor shaft.

E) the engine should stick to the box with silicone

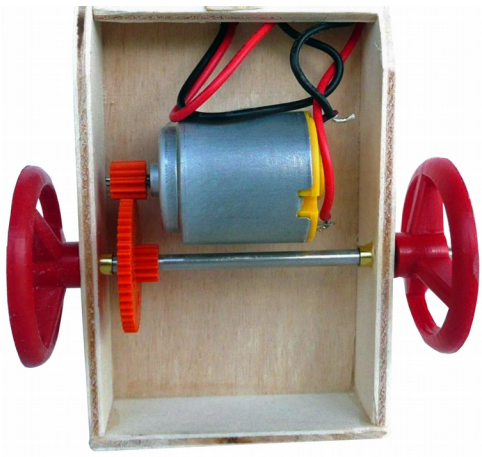
NOTE: The pinion will not jam with double gear. He has to leave room for movement.
The motor ventilation slots must be free.

F) When the glue is dry, you need to place the wheels to the drive shaft.

G) Pass the cables of the solar cell through the hole behind the seat. Place the cell into the box and paste tricycle with 4 double-sided adhesive pads.

H) Place the cables of the cell through the motor terminals, before soldering and check that the engine is working properly and in the right direction (forward). If it works reversed, requires reversing the wires of the solar cell. Once verified that works well, solder the wires to the motor

NOTE: Put a drop of engine oil inside of each cap and brass gears, smoother operation is achieved.



Like building management system tricycle

A) The perforated metal strips of the kit must be prepared according to the following drawings.
The lines marked point where you have to bend.

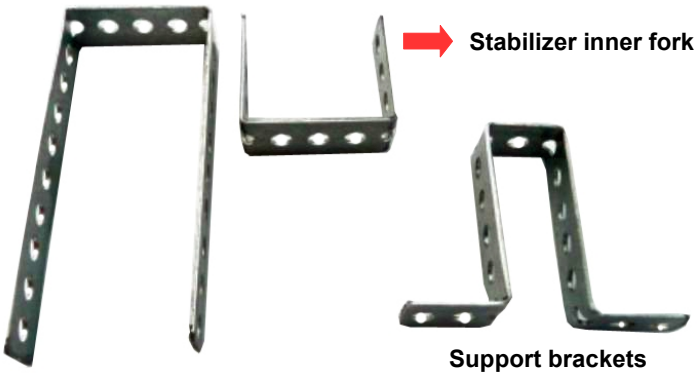
1

Fork 115 mm - 23 holes

55mm inner fork stabilizer - 11 Holes

85mm support brackets - 17 holes

2



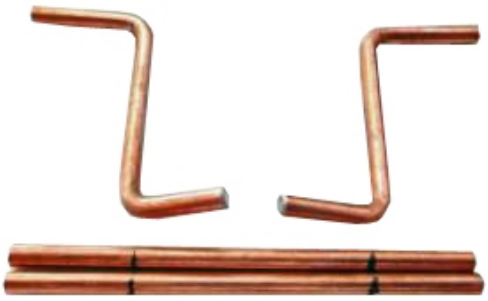
3

Complete fork

B) The mounting brackets fixed to the longitudinal wood at the top, with self-threaded screw CH2,9 x 6.5 mm.

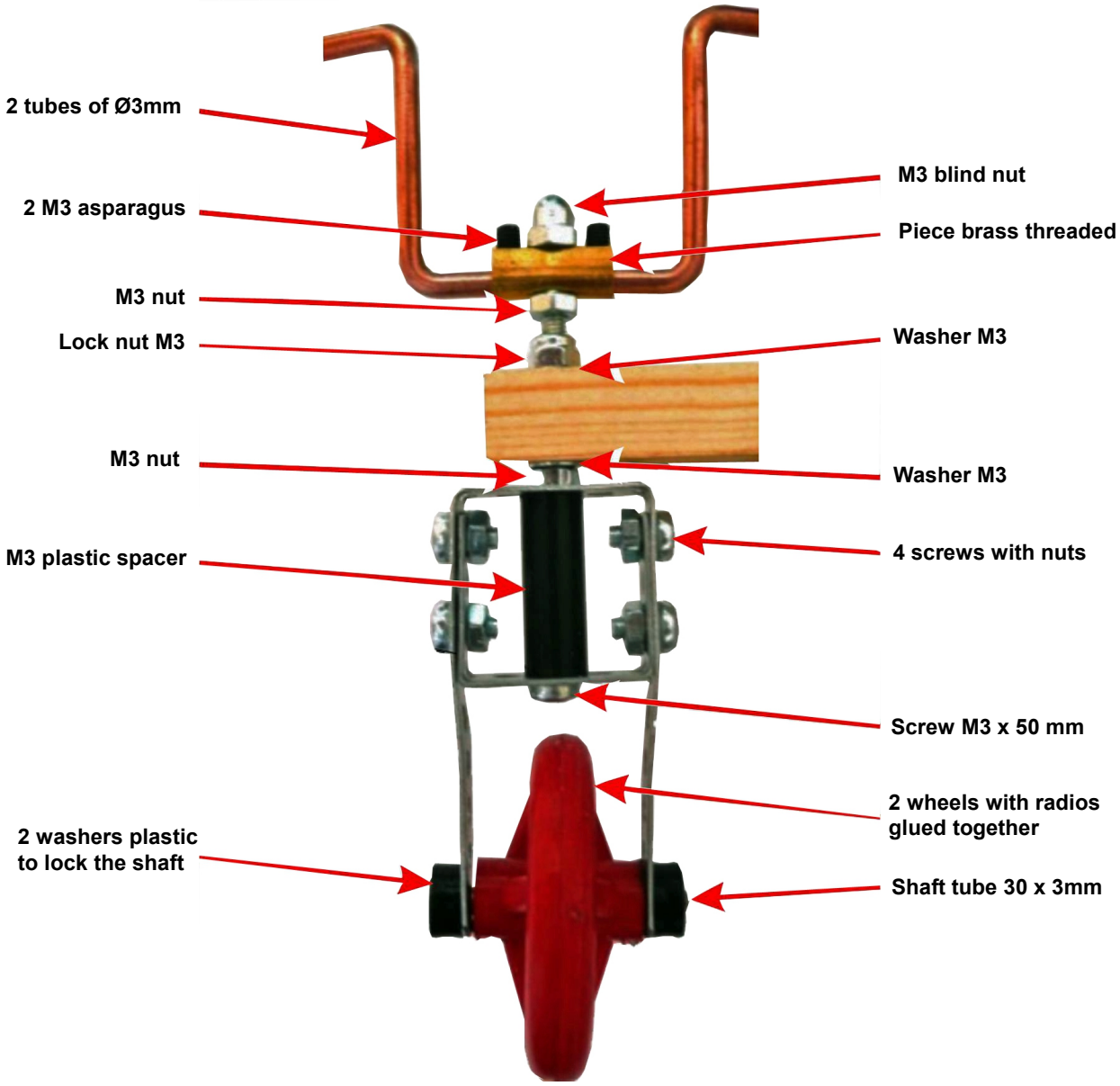
C) The two steering wheels are stuck and form a wide front wheel.
With Ø3mm bit must review the central hole, so the wheel will spin freely on its axis 30 x Ø3 mm.

D) The two parts of the handlebar are assembled, with the 60 mm tube included in the kit.
You have to bend the tube at 15 - 30 to 15 mm, as you can see in the picture.



It is very important that the folded parts are carried out exactly in the middle of the brand to fit well.

E) The construction of the steering system must be made according to the following image and the accompanying explanations.



This school Mounting Kit is designed for students and fans over 12 years old.
Kit wood and metal, with plastic wheels and accessories.

NOTE: This kit is recommended for children from 12 years if accompanied by an adult.

Notes