

Fan with belt

C-6147

Check all parts before beginning assembly

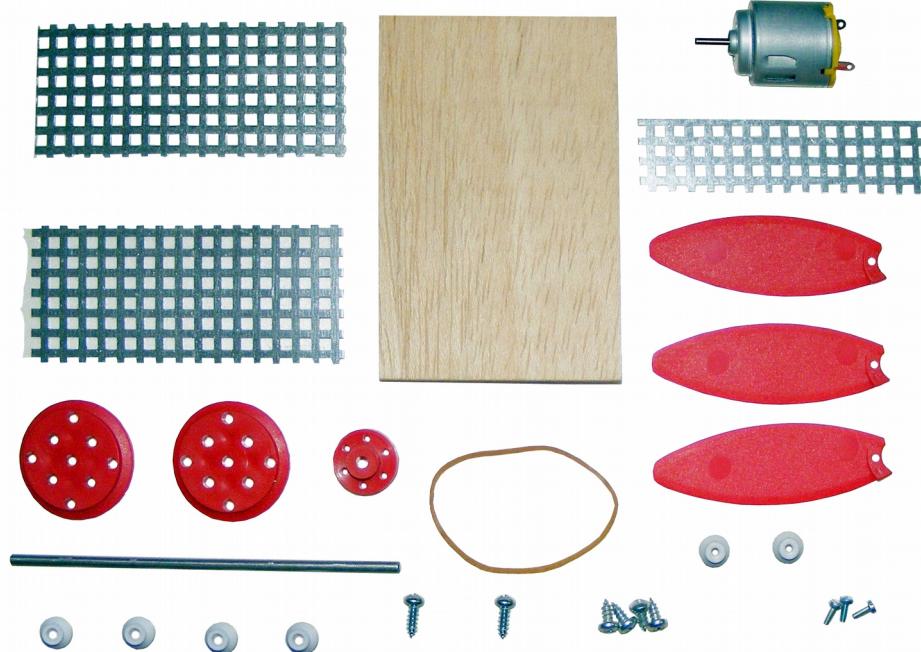
Tools required to mount the fan with belt :

- 1 - Pliers or shears for cutting sheet metal
- 2 - Lime
- 3 - Stamp
- 4 - Star head screwdriver
- 5 - Screwdriver
- 6 - Flat nose pliers
- 7 - Vise
- 8 - Fine sandpaper
- 9 - Welder and tin (if welded motor connection)

NOTE: This kit needs to operate a power supply of 4.5 or 9V battery or a "body pack" type 3R12 4.5V. THAT ARE NOT INCLUDED IN THE KIT.

Material included in this kit:

Nº	Quantity	Description
1	1	Shaft Ø3 x 100mm
2	4	Tapping screws 2,9 x 6,5 mm
3	2	Tapping screws 2,9 x 9,5 mm
4	1	40 x 1.5mm rubber band (belt)
5	2	Perforated plate 80x53mm (15x6 holes)
6	1	Perforated plate 75x20mm (14x3 holes)
7	3	For the propeller blades
8	1	Special motor
9	1	Bushing, drill 2.9mm
10	1	Board plywood 90x60x8mm
11	3	Screws M2x5mm
12	2	Mini flanged wheels Ø8,5x1,9mm
13	4	Mini flanged wheels Ø8,5x2,9mm
14	2	Flanged wheel Ø30/25x2,9mm

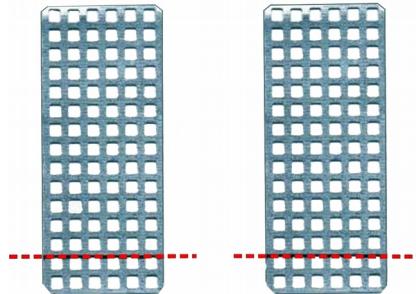


NOTE: Remember that before starting the engine mounting and cut once all the pieces have to polish all the edges well, so they can not be cut.

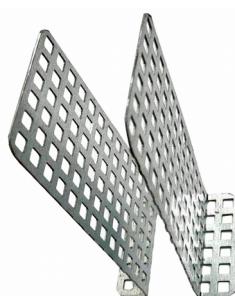
- The perforated plates are supplied cut to size with scissors for cutting sheet metal.
- Will cut the chamfered corners. After the to file and, if necessary, the pieces straight.
- To fold forms and will always use the vise.
- We must double L-shaped or U for the marked locations as appropriate.

Metal mounting brackets

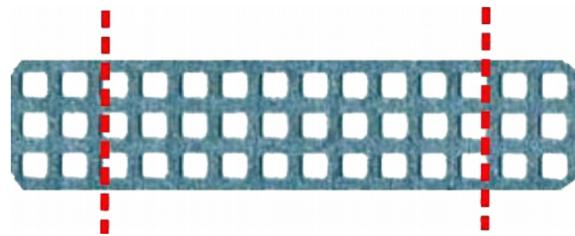
A) Once the perforated plates are cut and polished 80x35mm, we mark a line on parts, as can be seen in the drawing.



B) We will post one of the plates in the vise for the highlighted line, and will double to 90, well squared. We repeat the same operation with the other plate alike.



C) Now will the engine support. We will cut and polish the piece of 75x20mm, and then mark the lines indicated.

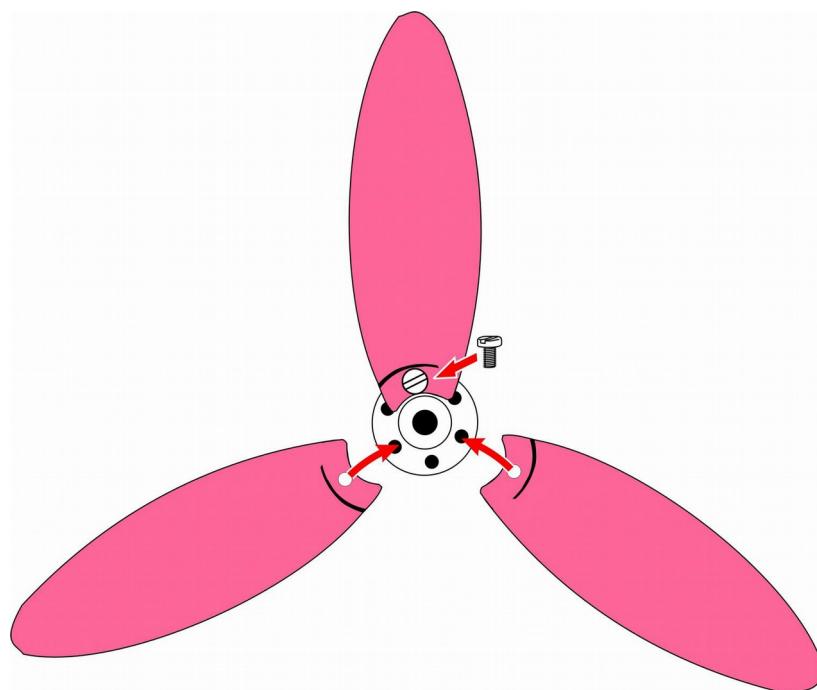
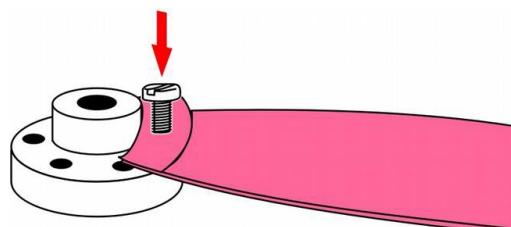


D) With the vise will double to 90 sides (the two ends on the same side). Then we will stand on the engine and will press to suit the curvature of the motor.



How to fit the propeller

A) To assemble the propeller. We screwed each of the blades on the hub, a screw M2 x 5mm.

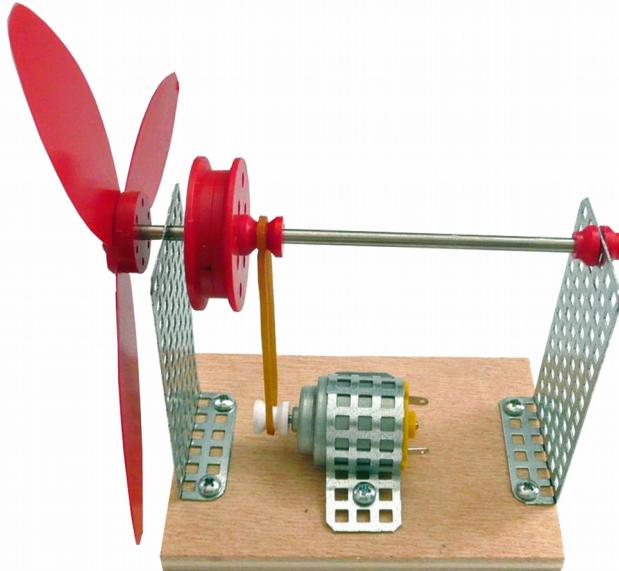


NOTE: Remember how the propeller blades are mounted determine if the air blow ahead or behind.

How to mount the brackets

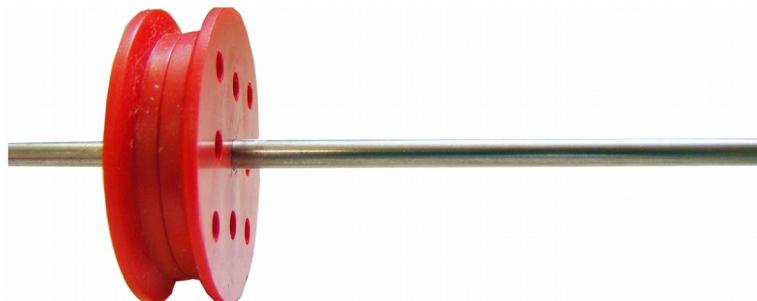
A) Assemble the plates supporting the shaft in the plywood 90x60x8mm. The two supports will anticlockwise just at the corners of the timber. As you can see in the drawing. Use screws 2.9 x 6,5mm. It is necessary to rank well the two supports for the shaft work properly.

NOTE: It is best to place the Ø3x100mm shaft at the time of fixing brackets



How to fit the shaft

A) Place x100mm axis O3 definitely one of the supports. Below the flanged wheels 30/25 x 2.9, so that they are joined at the bottom and form a pulley is placed.



B) Will place the two flanged wheels mini 8.5 x 2.9, so as to form a small mini pulley.



- C) Place the rubber ring on the shaft.
- D) placed a flanged wheel mini 8.5 x 2.9, so that the widest part touch the axle bracket.
- E) will post another mini wheel with 8.5 x 2.9 tab so that the widest part touch the shaft support and close the set.



NOTE: Remember that the last two mini flanged wheels (8.5 x 2.9), must have enough clearance and must not stop the axis.

- F) Check that the shaft rotates freely.
- G) Insert the free end propeller shaft 3mm

Engine mount

- A) Mount the two mini flanged wheels (8.5 x 1.9) at the motor shaft. Lower pairs will be played to form a pulley. As you can see in the drawing.



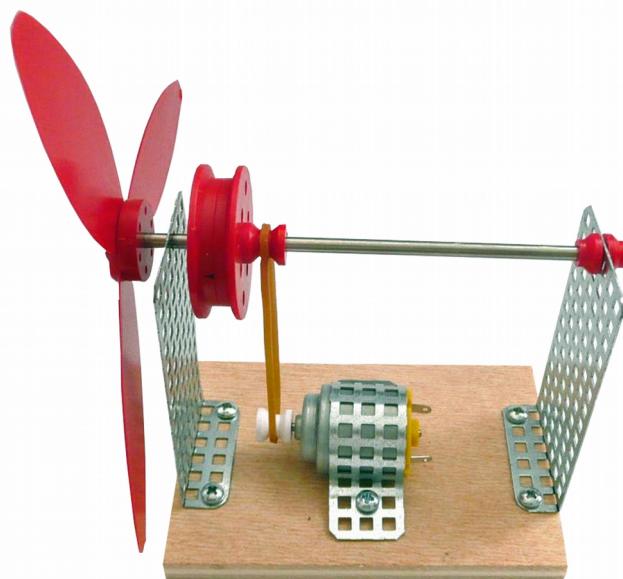
- B) Position the motor so that the slot mini motor pulley, fits well with the mini pulleys facing the axis of 3mm. Place the motor bracket above it and fix it with two screws 2,9x9,5mm.

- C) Place the rubber ring (belt) between the motor pulley and the pulley shaft mini 3mm.

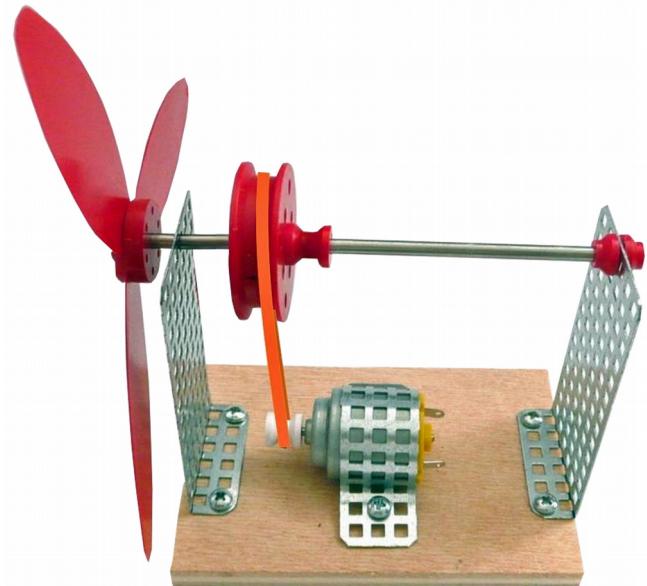
NOTE: This is a dual speed fan. When the belt connecting the two pulleys mini will go to full speed.

When connecting the large pulley belt above with mini motor pulley, will blow less strongly. If the two shaft pulleys are set in the center of the motor pulley, moving them will not need to change gears.

D) This engine works with direct current 4.5 to 9 V
 You can also connect to a power supply or a 4.5V battery (type 3R12).
REMEMBER THAT ARE NOT INCLUDED IN THE KIT.



Fast speed



Slow speed

Simple and practical school kit to show how a small built entirely by the student him / herself electric fan. Designed for students and fans over 12 years old. Kit wood and metal with plastic accessories.

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



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Notas: