

driver

# Assembling the Body

Put legs into the lower body and fix with small screws.

\* For easy handling, stick a screw to the magnetized tip of the driver

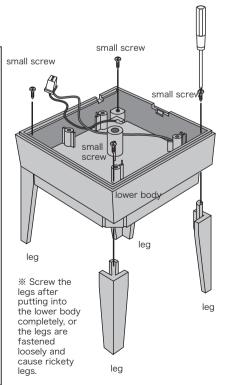
legs.

Attach the



A strong magnet is used in the speaker. Rub the tip of the driver against the magnet at the back of the speaker a couple of times to the same direction, and the tip of the driver is magnetized to stick the screws. Let's try!

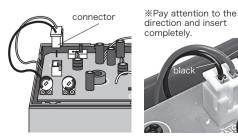
% Be careful of the wires of the speaker since it comes off easily. Use caution not to touch the transparent cone since it is dented easily.



#### 2 Install the circuit board.

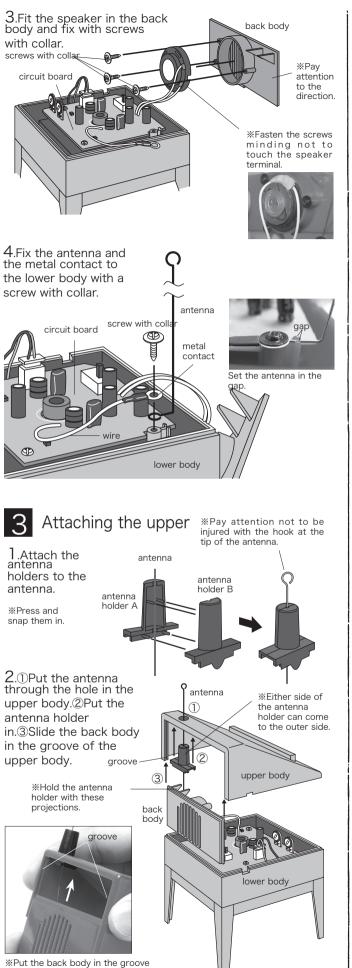
1.Set the circuit board into the speaker come off e a sily. Pay lower body and fix with small e a sily. Pay attention not to screws. small screw pull, too much. Use caution not to touch small scre the transparent cone part since it is a %Take the delicate part connector out small screw to make of this part. sounds by vibration. rcuit board See the figure carefully and pay attention to the direction of the circuit. lower body

2.Insert the connecter of the battery box into the circuit board.



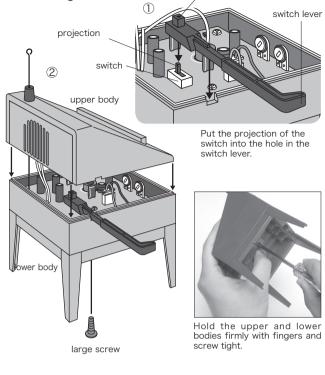


2

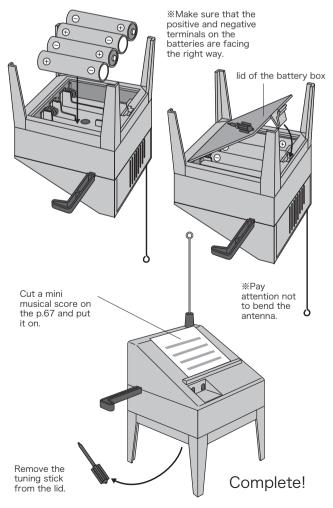


%Put the back body in the groove and slide to fit in completely.  $3.\ensuremath{\textcircled{0}}$  Set the switch lever on the switch on the circuit board.

②A Put the upper body on the lower body and fix with the large screw.



 $4. \mbox{Set}$  batteries in the battery box at the lower body and fit the lid on.

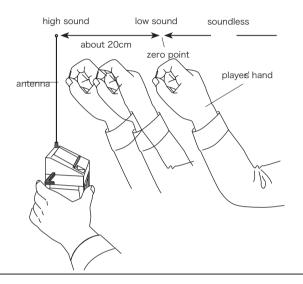


# Tuning



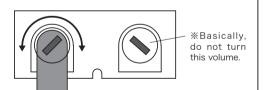
## 1 What is tuning?

A theremin is easily influenced by the circumstance including the player. So every time before playing a theremin, the player needs to tune the theremin for himself. Concretely speaking, tuning means to set x the zero point that is, the condition that sound of the theremin becomes lower and lower to be soundless, to the normal position. The ideal zero point is the position about 20cm away from the antenna like the figure below but it is playable if the point goes forward about



## Turn the volumes to tune

A theremin produces sound by the resonance of two frequencies. The two volumes on the body are to change each one of two frequencies. Turn the volumes with the tuning stick.



## Hint on turning the tuning stick

At the last stage of the fine tuning, dort' really move the stick but just put power to the direction. Such subtlety is needed to fine tune.

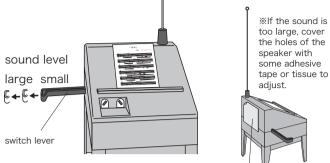




1.Pull out the switch lever from the body. It beeps. (Dottimind if it doestabeep.) There are two sound levels, large and small.

### Tuning is very fine work. Be patient to tune!

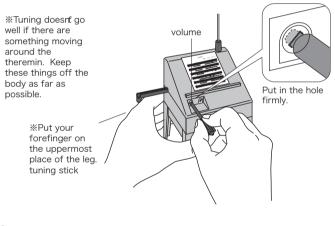
adhesive tape



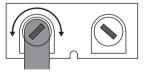
Tune the theremin at the place where you actually plays. Play it on a flat and stable place like on a wooden desk. A steel desk is not suitable since it may influence the sound.

2. Turn the left volume with the tip of the tuning stick to tune.

Don'move your left hand since it plays an important role in tuning.

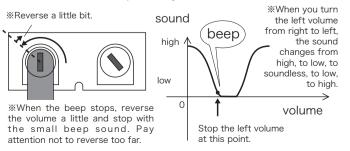


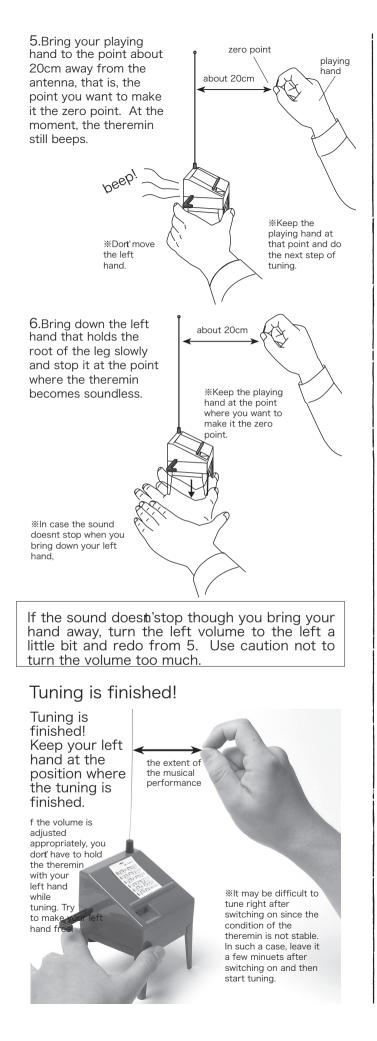
3.Turn large the left volume to right and left with the tuning stick and make sure the sound becomes high and low. Also make sure there is a soundless part.



%In case there are no soundless parts, turn the right volume a little to right or left. Then turn the left volume again to make sure if there is a soundless part. If there are no soundless places yet, turn the right volume larger.

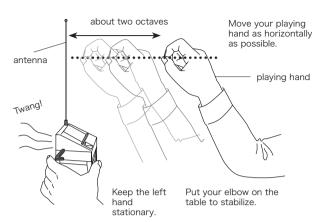
4.Turn the left volume to the rightmost and then turn to the left little by little. The sound becomes lower as shown in the right figure below. When it becomes soundless, reverse the volume a little. Stop at the point where the sound beeps faintly.



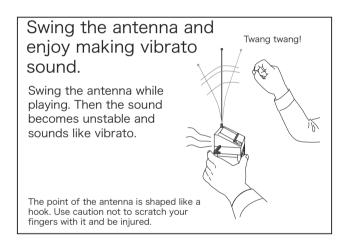


# Let's Try to Play!

Move your right hand and play C, D, E, F, G, A, B, C with your left hand fixed.

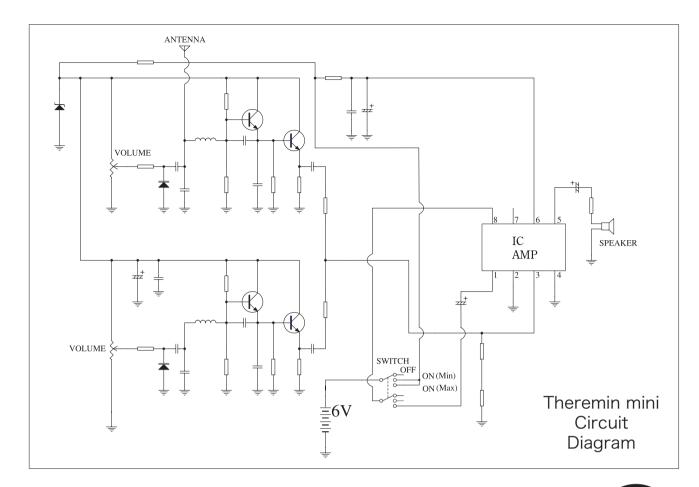


The sound is continuous and it changes when the hand moves even if it is only 1mm move. Look for the scales patiently and carefully.



## Mini

Scale Oh, My Beloved Father Puccini Cut theses scale along the line and put these on the music stand of the theremin! a-1 a-2 rom the New World mvt II Largo El Condor Pasa Robles / Milchberg Dvorak <u> نه د د چې اړ ۲۰</u> 5 b-1 c-1



### Q:My theremin doesn't make sound.

ACheck the assembly process.

Is the switch lever attached to the right place?

Are the antenna and wires attached correctly?

Is the connecter of the battery box set in the circuit completely? A:Check the cone of the speaker.

The transparent part of the speaker oscillates to make sound. If it is pushed with fingers and dented, it may not make clear sound.

- A: Check if the batteries are new.
  - If the batteries are dead, change these with new batteries. Be careful of the direction of the batteries.

A theremin consumes batteries as long as the switch is on even if it doesn't make sound. Turn off the switch when not in use and remove batteries.

### A:Check the wires of the speaker

If the wires come off of the speaker, solder these up.

#### Q:I can' tune it well.

A:Tuning needs fine adjustment.

Turn the tuning stick more slightly. See XHint on turning the tuning stickt at the lower left of the p.4 and tune patiently.

#### Q:The zero point doesn' become stable after tuning.

ACheck if there is something moving around the theremin.

If something that conducts electricity is moving around the theremin, the sound changes. Keep these things at a distance while tuning.

A:A theremin is easily influenced by temperature and humidity.

Leave the theremin a few minuets after switching on until it becomes stable, and then start tuning one more time.



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