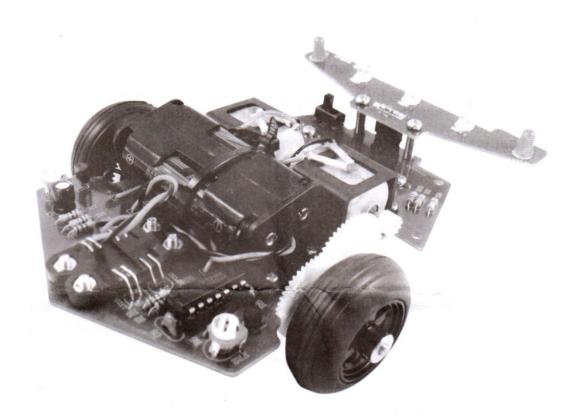
Line Tracing Car V2

Manual no: DG-2000V2



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Manufacturer & technology supporter: Zhongshan DAGU Electronic Technology CO.,Ltd WWW.AREXX.COM



European Importer: AREXX Engineering ZWOLLE, HOLLAND

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Address:NO.4-107/108 HengXing Street, HengHai Rd, South District, ZhongShan City of GuangDong China TEL:0760-88811951 http://www.arexx.com.cn E-mail:info@arexx.com.cn

Instruction:

This product takes the principle of light sensing. The two motors are activated by the two light sensers on the front which can sense the light they catch. Only If you paint a black line on the white paper and then turn on the switch ,The line tracing car can track the black line that you paint.

Specification:

Power source : 3v(AA battery X 2pc)
Power consumption : MAX :100mA, MIN:60mA

Size : 145x120x40mm

Net weight : 190g



Precaution:

When you open the parts the return right will be disposed.

Read carefully before you stare assembly the instruction manual.

Be carefully with tools

• Keep this product out of reach of children and do not build this kit when children are in the neighbourhood, the tools and parts are dangerous for children

Check the polarity of the battery.

 Keep the batteries dry, when the line tracing car gets wet, remove the batteries and let it dry for some time.

Remove the batteries when you are not using the product for a period of time.



Recommended age 14 and up.

Necessary tools:

We advise you to read carefully the operation manual before assembly.

Please assemble this education model according to instruction manual, so that you can avoid mistake. If you study the assembly indication diagram carefully, then you can assemble a completed line tracing car immediately.

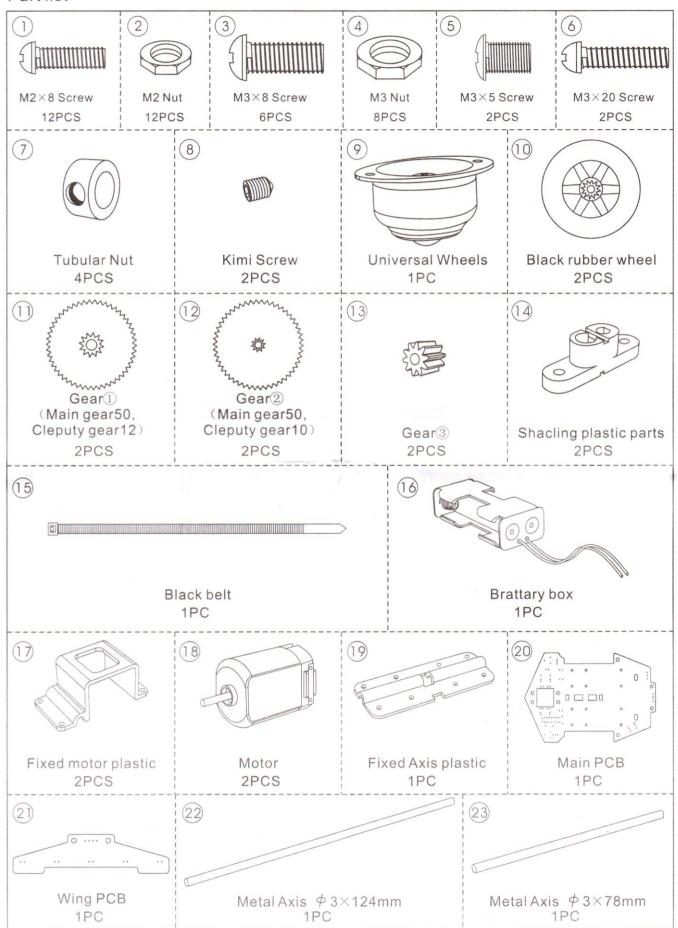
You must use these tools as follows before assembly, so you can assemble without difficulties.



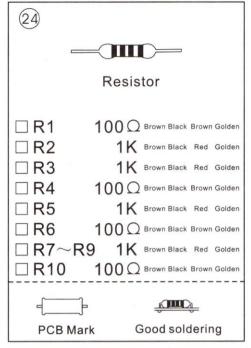
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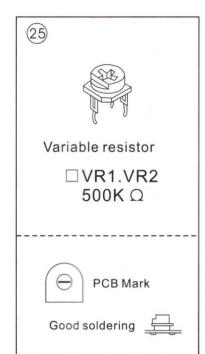
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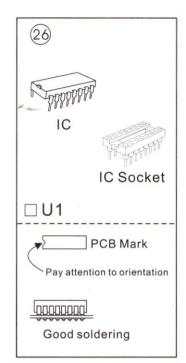
Part list

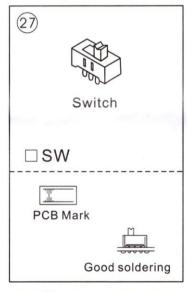


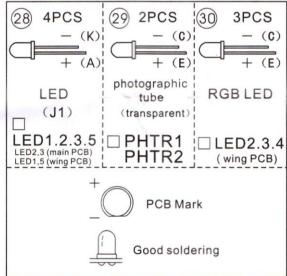
Electronic components

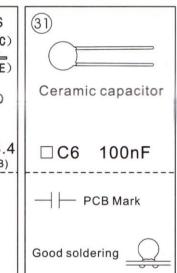


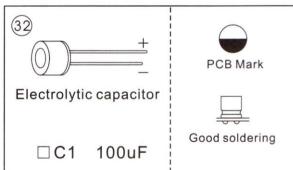


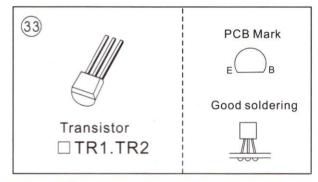


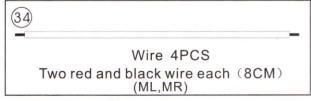


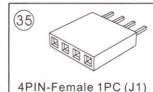


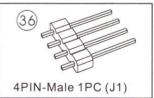












The installation process:

The installation of electronic components:

Wielding PCB shows clearly the position of each part, please refer to electronic diagram and installation instruction diagram for more information.

We always start to solder the lowest parts, usually the resistor is first, then capacitance. We advise to cut the component wires directly after soldering so they will be out of the way when you start soldering other parts.

Before soldering, we advise to install components (for example transistor, IC, diode), in this way when some parts do not fit properly, you can reinstall.

Suggestion:

Electrolytic capacitor, LED, photographic tube and IC have polarity, you must pay attention to the polarity when soldering.

Warning:

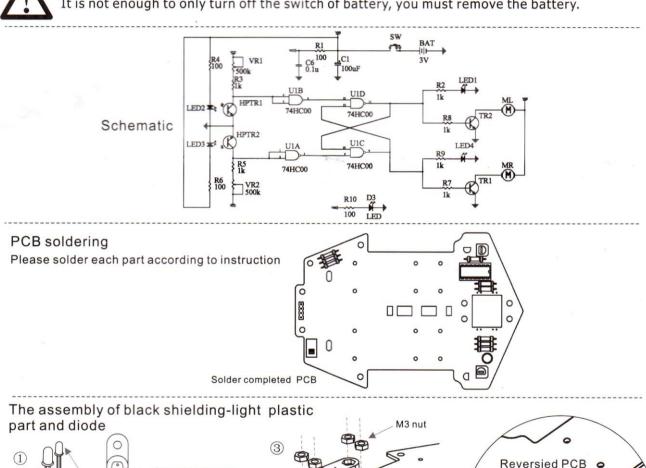
Do not solder IC directly, when you are soldering IC, it is better to use IC socket to avoid mistake As after soldering, it is difficult to remove.

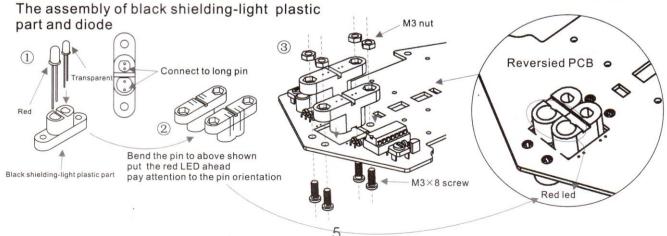
You should align IC pins with a flat nose plier or bend them all together when all pins rest on the table

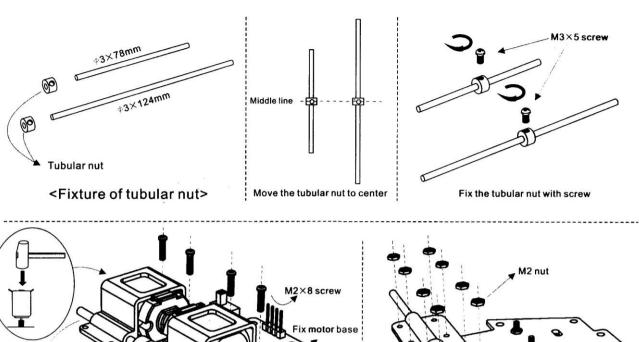


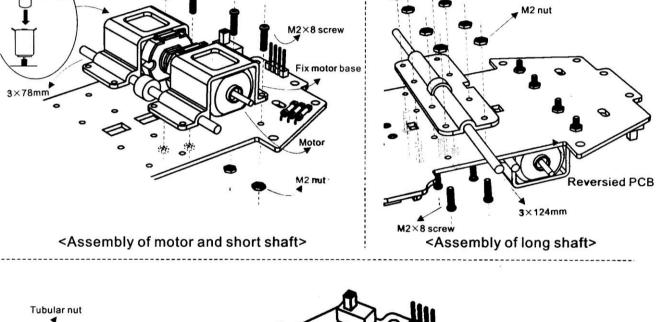
You must make sure the PCB is no electricity when soldering.

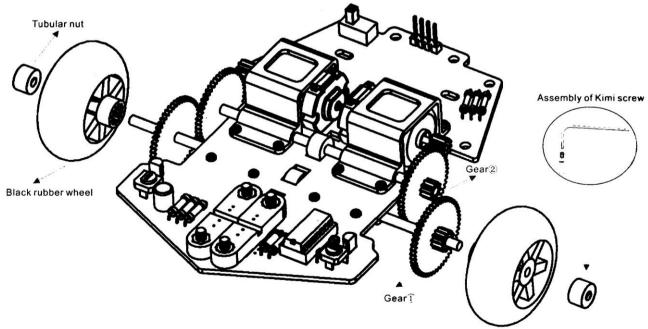
It is not enough to only turn off the switch of battery, you must remove the battery.



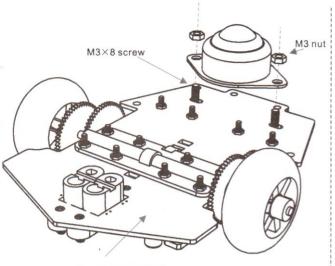




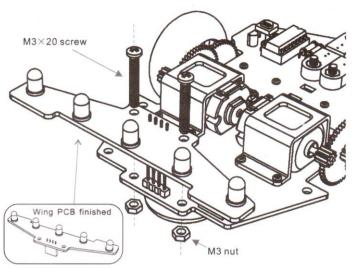




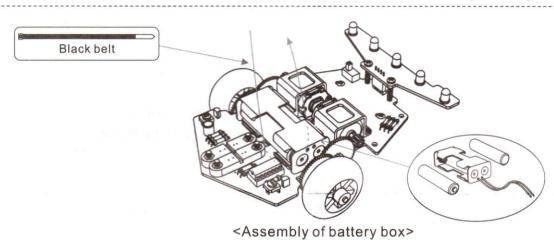
<Assembly of gear and front rubber wheel>

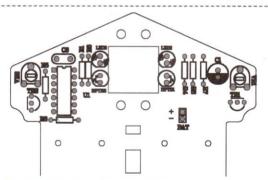


Reversied PCB <Assembly of universal wheel>

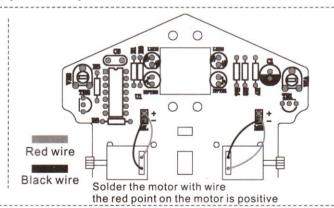


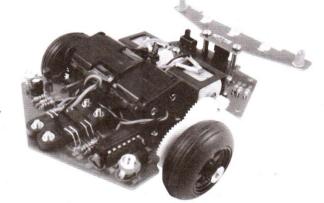
<Assembly of Wing PCB>





Connect to battery and pay attention to the polarity red line is positive and black line is negative





<Completed>

Debug:

After assembly, now you can debug your line tracing car; first you should paint a thick black line on the white paper (circuit is better), then put the paper on the table, turn on the switch, put precisely the sensing diode to the black line, in this way it can run along the black line.

Check here when it is not operated correctly.

Problem	Check	
Motor can not be activated	 Check the life of the battery Check the polarity of the battery Check the wiring of the motor 	
It can not run along the Black line	Check whether the black line is too thin (advise to 3cm width) Check whether the black line is deep black Check whether the variable resister is adjusted accordingly Check the polarity of the light sensing diode. Check whether the light is too strong around. Check the polarity of the motor.	



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