

Wireless remote control robotic arm



brief introduction

The wireless remote control robot arm is precisely controlled by the 2.4GHz wireless remote control, enabling the robot arm to achieve a series of basic movement functions such as extension, contraction, left rotation, right rotation, and grasping and releasing. This wireless remote control robot arm helps to exercise and improve our hand-brain coordination.

Next, let's make a wireless remote control robot arm of our own!

Required production tools and self-contained materials

You need to prepare a small screwdriver, a pair of small scissors, and six AA batteries. During the production process, you need a screwdriver to install screws, and you need to use scissors to trim the cable ties. After the production is completed, you need to use batteries to make the made model work normally.

Attention: Nanfu batteries and lithium batteries cannot be used.

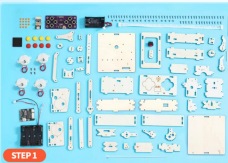
NOTE

Hello child! Please be careful when opening the material package to avoid the sudden loss of small materials. The loss of small materials may cause your small production to fail!

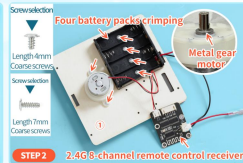
Children, please do not assemble small productions alone. Making alone may be dangerous. You must be accompanied by your parents or teachers to make them!

If you want to easily make a small production model, you need to read the instructions carefully and follow the steps to make it. If you don't understand any questions, you can ask your parents or teachers. Seeking help from others is also a kind of learning!

Do it with me



STEP 1 Prepare small fabrication materials. The wooden board has a patterned surface for the front, but no pattern for the back.



STEP 2 2.4G 8-channel remote control receiver

First use 4mm coarse thread screws to mount the four-cell battery holder wiring on board No. 1, then use 7mm coarse thread screws to install the metal gear motor on board No. 1, and finally insert the metal gear motor wiring and the four-cell battery holder wiring into the 2.4G 8-channel remote receiver.

measuring ruler



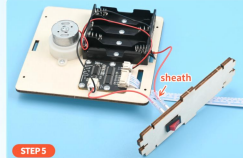
STEP 3

Referring to the picture above, first insert the 6P double-ended terminal wire into the 2.4G 8-channel remote control receiver, then pass the 6P double-ended terminal wire through the hole of the ① plate, and finally install the 2.4G 8-channel remote control receiver on the ① plate with 4mm rough-grain screws



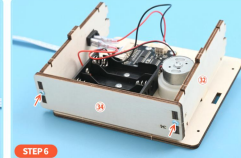
STEP 4

Refer to the picture above, install the boat type switch on the ③ plate.



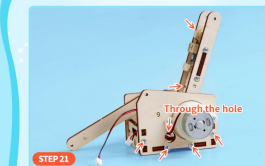
STEP 5

First, insert the red wire spring of the battery box and the red wire spring of the power interface into the ship switch, and then put on a transparent sheath. Note: "—" means on, "0" means off.

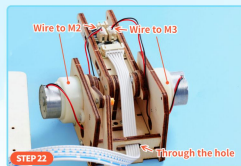


STEP 6

First, install the 9A plate on the 9B plate with 7mm rough-grain screws, and then install the 9C plate on the 9A plate with 7mm rough-grain screws. Note: the orientation of the 9C, 9D, 9E, 9F, 9G, 9H, 9I, 9J, 9K, 9L, 9M, 9N, 9O, 9P, 9Q, 9R, 9S, 9T, 9U, 9V, 9W, 9X, 9Y, 9Z, 9AA, 9AB, 9AC, 9AD, 9AE, 9AF, 9AG, 9AH, 9AI, 9AJ, 9AK, 9AL, 9AM, 9AN, 9AO, 9AP, 9AQ, 9AR, 9AS, 9AT, 9AU, 9AV, 9AW, 9AX, 9AY, 9AZ, 9BA, 9BB, 9BC, 9BD, 9BE, 9BF, 9BG, 9BH, 9BI, 9BJ, 9BK, 9BL, 9BM, 9BN, 9BO, 9BP, 9BQ, 9BR, 9BS, 9BT, 9BU, 9BV, 9BW, 9BX, 9BY, 9BZ, 9CA, 9CB, 9CC, 9CD, 9CE, 9CF, 9CG, 9CH, 9CI, 9CJ, 9CK, 9CL, 9CM, 9CN, 9CO, 9CP, 9CQ, 9CR, 9CS, 9CT, 9CU, 9CV, 9CW, 9CX, 9CY, 9CZ, 9DA, 9DB, 9DC, 9DD, 9DE, 9DF, 9DG, 9DH, 9DI, 9DJ, 9DK, 9DL, 9DM, 9DN, 9DO, 9DP, 9DQ, 9DR, 9DS, 9DT, 9DU, 9DV, 9DW, 9DX, 9DY, 9DZ, 9EA, 9EB, 9EC, 9ED, 9EE, 9EF, 9EG, 9EH, 9EI, 9EJ, 9EK, 9EL, 9EM, 9EN, 9EO, 9EP, 9EQ, 9ER, 9ES, 9ET, 9EU, 9EV, 9EW, 9EX, 9EY, 9EZ, 9FA, 9FB, 9FC, 9FD, 9FE, 9FF, 9FG, 9FH, 9FI, 9FJ, 9FK, 9FL, 9FM, 9FN, 9FO, 9FP, 9FQ, 9FR, 9FS, 9FT, 9FU, 9FV, 9FW, 9FX, 9FY, 9FZ, 9GA, 9GB, 9GC, 9GD, 9GE, 9GF, 9GG, 9GH, 9GI, 9GJ, 9GK, 9GL, 9GM, 9GN, 9GO, 9GP, 9GQ, 9GR, 9GS, 9GT, 9GU, 9GV, 9GW, 9GX, 9GY, 9GZ, 9HA, 9HB, 9HC, 9HD, 9HE, 9HF, 9HG, 9HH, 9HI, 9HJ, 9HK, 9HL, 9HM, 9HN, 9HO, 9HP, 9HQ, 9HR, 9HS, 9HT, 9HU, 9HV, 9HW, 9HX, 9HY, 9HZ, 9IA, 9IB, 9IC, 9ID, 9IE, 9IF, 9IG, 9IH, 9II, 9IJ, 9IK, 9IL, 9IM, 9IN, 9IO, 9IP, 9IQ, 9IR, 9IS, 9IT, 9IU, 9IV, 9IW, 9IX, 9IY, 9IZ, 9JA, 9JB, 9JC, 9JD, 9JE, 9JF, 9JG, 9JH, 9JI, 9JJ, 9JK, 9JL, 9JM, 9JN, 9JO, 9JP, 9JQ, 9JR, 9JS, 9JT, 9JU, 9JV, 9JW, 9JX, 9JY, 9JZ, 9KA, 9KB, 9KC, 9KD, 9KE, 9KF, 9KG, 9KH, 9KI, 9KJ, 9KK, 9KL, 9KM, 9KN, 9KO, 9KP, 9KQ, 9KR, 9KS, 9KT, 9KU, 9KV, 9KW, 9KX, 9KY, 9KZ, 9LA, 9LB, 9LC, 9LD, 9LE, 9LF, 9LG, 9LH, 9LI, 9LJ, 9LK, 9LL, 9LM, 9LN, 9LO, 9LP, 9LQ, 9LR, 9LS, 9LT, 9LU, 9LV, 9LW, 9LX, 9LY, 9LZ, 9MA, 9MB, 9MC, 9MD, 9ME, 9MF, 9MG, 9MH, 9MI, 9MJ, 9MK, 9ML, 9MM, 9MN, 9MO, 9MP, 9MQ, 9MR, 9MS, 9MT, 9MU, 9MV, 9MW, 9MX, 9MY, 9MZ, 9NA, 9NB, 9NC, 9ND, 9NE, 9NF, 9NG, 9NH, 9NI, 9NJ, 9NK, 9NL, 9NM, 9NN, 9NO, 9NP, 9NQ, 9NR, 9NS, 9NT, 9NU, 9NV, 9NW, 9NX, 9NY, 9NZ, 9OA, 9OB, 9OC, 9OD, 9OE, 9OF, 9OG, 9OH, 9OI, 9OJ, 9OK, 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9FT, 9FU, 9FV, 9FW, 9FX, 9FY, 9FZ, 9GA, 9GB, 9GC, 9GD, 9GE, 9GF, 9GG, 9GH, 9GI, 9GJ, 9GK, 9GL, 9GM, 9GN, 9GO, 9GP, 9GQ, 9GR, 9GS, 9GT, 9GU, 9GV, 9GW, 9GX, 9GY, 9GZ, 9HA, 9HB, 9HC, 9HD, 9HE, 9HF, 9HG, 9HH, 9HI, 9HJ, 9HK, 9HL, 9HM, 9HN, 9HO, 9HP, 9HQ, 9HR, 9HS, 9HT, 9HU, 9HV, 9HW, 9HX, 9HY, 9HZ, 9IA, 9IB, 9IC, 9ID, 9IE, 9IF, 9IG, 9IH, 9II, 9IJ, 9IK, 9IL, 9IM, 9IN, 9IO, 9IP, 9IQ, 9IR, 9IS, 9IT, 9IU, 9IV, 9IW, 9IX, 9IY, 9IZ, 9JA, 9JB, 9JC, 9JD, 9JE, 9JF, 9JG, 9JH, 9JI, 9JJ, 9JK, 9JL, 9JM, 9JN, 9JO, 9JP, 9JQ, 9JR, 9JS, 9JT, 9JU, 9JV, 9JW, 9JX, 9JY, 9JZ, 9KA, 9KB, 9KC, 9KD, 9KE, 9KF, 9KG, 9KH, 9KI, 9KJ, 9KK, 9KL, 9KM, 9KN, 9KO, 9KP, 9KQ, 9KR, 9KS, 9KT, 9KU, 9KV, 9KW, 9KX, 9KY, 9KZ, 9LA, 9LB, 9LC, 9LD, 9LE, 9LF, 9LG, 9LH, 9LI, 9LJ, 9LK, 9LM, 9LN, 9LO, 9LP, 9LQ, 9LR, 9LS, 9LT, 9LU, 9LV, 9LW, 9LX, 9LY, 9LZ, 9MA, 9MB, 9MC, 9MD, 9ME, 9MF, 9MG, 9MH, 9MI, 9MJ, 9MK, 9ML, 9MM, 9MN, 9MO, 9MP, 9MQ, 9MR, 9MS, 9MT, 9MU, 9MV, 9MW, 9MX, 9MY, 9MZ, 9NA, 9NB, 9NC, 9ND, 9NE, 9NF, 9NG, 9NH, 9NI, 9NJ, 9NK, 9NL, 9NM, 9NN, 9NO, 9NP, 9NQ, 9NR, 9NS, 9NT, 9NU, 9NV, 9NW, 9NX, 9NY, 9NZ, 9OA, 9OB, 9OC, 9OD, 9OE, 9OF, 9OG, 9OH, 9OI, 9OJ, 9OK, 9OL, 9OM, 9ON, 9OO, 9OP, 9OQ, 9OR, 9OS, 9OT, 9OU, 9OV, 9OW, 9OX, 9OY, 9OZ, 9PA, 9PB, 9PC, 9PD, 9PE, 9PF, 9PG, 9PH, 9PI, 9PJ, 9PK, 9PL, 9PM, 9PN, 9PO, 9PP, 9PQ, 9PR, 9PS, 9PT, 9PU, 9PV, 9PW, 9PX, 9PY, 9PZ, 9QA, 9QB, 9QC, 9QD, 9QE, 9QF, 9QG, 9QH, 9QI, 9QJ, 9QK, 9QL, 9QM, 9QN, 9QO, 9QP, 9QQ, 9QR, 9QS, 9QT, 9QU, 9QV, 9QW, 9QX, 9QY, 9QZ, 9RA, 9RB, 9RC, 9RD, 9RE, 9RF, 9RG, 9RH, 9RI, 9RJ, 9RK, 9RL, 9RM, 9RN, 9RO, 9RP, 9RQ, 9RR, 9RS, 9RT, 9RU, 9RV, 9RW, 9RX, 9RY, 9RZ, 9SA, 9SB, 9SC, 9SD, 9SE, 9SF, 9SG, 9SH, 9SI, 9SJ, 9SK, 9SL, 9SM, 9SN, 9SO, 9SP, 9SQ, 9SR, 9SS, 9ST, 9SU, 9SV, 9SW,



- STEP 21**
- First, use 7mm rough-grain screws to install the ⑪ plate on the ③, ⑤, ⑥ plates, and then use 7mm rough-grain screws to install the ⑪ plate on the ⑪ plate.



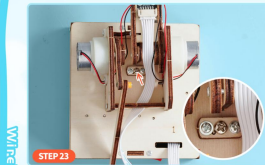
- STEP 22**
- As shown in the above figure, first insert the wires of the left and right metal gear motors into the output terminal board, then pass the 6P double-ended terminal wires through the holes of the ⑪ board, and finally insert the 6P double-ended terminal wires into the output terminal board.



- STEP 27**
- Install the ⑪ plate on the ⑪ plate with 7mm rough-grain screws.



- STEP 28**
- First, stack the ⑪ plate on the ⑪ plate, and then fix it with 7mm rough-grain screws from the bottom of the ⑪ plate.



- STEP 23**
- As shown in the above figure, install boards ② and ④ on the metal gear motor using machine screws.



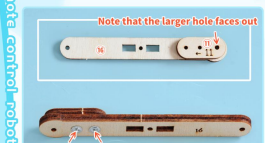
- STEP 24**
- First, stack the ⑪ plate on the ⑪ plate, and then install the ⑪ plate on the ⑪ plate with 7mm rough-grain screws.



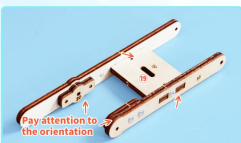
- STEP 29**
- Install the ⑪ plate on the ⑪ plate with 7mm rough-grain screws.



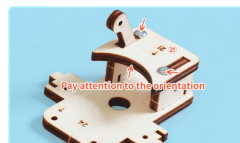
- STEP 30**
- Install the ⑪ plate on the ⑪ plate with 7mm rough-grain screws.



- STEP 25**
- First, stack the ⑪ plate on the ⑪ plate, and then install the ⑪ plate on the ⑪ plate with 7mm rough-grain screws.



- STEP 26**
- Refer to the picture above, use 7mm coarse-grained screws to install the ⑪, ⑪ plates on the ⑪ plates.



- STEP 31**
- First pass the ⑪ plate through the ⑪ plate, and then install the ⑪ plate on the ⑪, ⑪ with 7mm rough-grain screws.



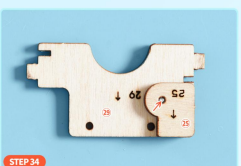
- STEP 32**
- Install the metal gear motor on the ⑪ board using 7mm coarse thread screws.

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- STEP 33**
- As shown in the above figure, install plate ⑪, ⑪ on the metal gear motor using machine screws. Attention: Do not overtighten the screw when driving it into board No. 30 to avoid damaging the center hole.



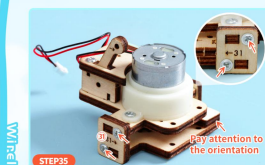
- STEP 34**
- First, stack the ⑪ plate on the ⑪ plate, and then fix it with 7mm rough-grain screws from the bottom of the ⑪ plate.



- STEP 35**
- Referring to the picture above, first pass the headrail through the ⑪, ⑪ plates, and then fix it with an orange fixing ring.



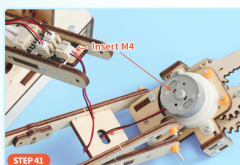
- STEP 40**
- Referring to the picture above, first pass the stud through the ⑪, ⑪ plates, then fix it with an orange fixing ring, then pass the stud through the ⑪, ⑪ plates, and finally fix it with an orange fixing ring.



- STEP 35**
- Use 7mm rough-grained screws to install the two ⑪ plates on the ⑪, ⑪ plates.



- STEP 36**
- First, insert the ⑪ plate into the ⑪ plate, then pass the 3CM shaft through the holes of the ⑪, ⑪, ⑪, ⑪ plate, and then insert orange fixing rings at both ends of the shaft.



- STEP 41**
- As shown in the above figure, insert the metal gear motor wires into the output terminal board.



- STEP 42**
- Referring to the figure above, first pass the 6CM shaft through the ⑪, ⑪, ⑪, ⑪, ⑪, ⑪, ⑪, ⑪, and then insert orange fixing rings at both ends of the shaft.



- STEP 37**
- First, insert the ⑪ plate into the gear of the ⑪ plate, then pass the 6CM shaft through the holes of the ⑪, ⑪, ⑪ plates, and finally insert orange fixing rings at both ends of the shaft.



- STEP 38**
- First insert the 6CM shaft into boards numbered ⑪, ⑪, ⑪, and ⑪, then insert the orange retaining rings at both ends of the shaft, and finally pass the metal gear motor wires from board ⑪ through the hole on board ⑪.



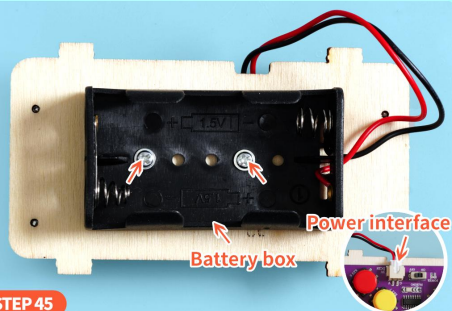
- STEP 43**
- Referring to the above picture, first put the headrail through the holes of the ⑪, ⑪ plates, then insert the orange fixing ring, then put the headrail through the holes of the ⑪, ⑪ plates, and fix it with the orange fixing ring. Finally, tie the wire with a cable tie and cut off the excess cable tie. Attention: Please be careful when using scissors and take safety precautions. Children must use scissors accompanied by an adult.



- STEP 44**
- First, install the 2.4G 8-channel wireless remote control on the front of the S-plate with 4mm rough-grain screws, and then install the button cap on the 2.4G 8-channel wireless remote control.

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STEP 45

- First, install the battery box on the reverse side of the No. 1 plate with 4mm rough-grain screws, and then insert the battery box wire into the 2.4G 8-channel wireless remote control.



STEP 46

- Install the 36 plate on the 35 plate.



STEP 47

- Install the two 37 plates on the 36 plates.



STEP 48

- Install another 36 plate on two 37 plates.



STEP 49

- Install the 38 plate on two 36 plates with 7mm rough-grain screws.



STEP 50

- First, install the 39 plate on two 38 plates with 7mm rough-grain screws, and then install the battery in the battery box. **Attention: Nanfu batteries and lithium batteries cannot be used.**



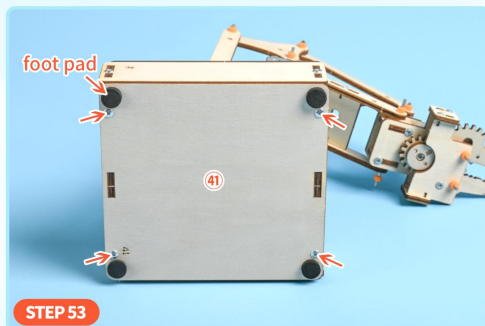
STEP 51

- The wireless remote control robotic arm is completed. First, dial the remote control to the ON direction, then dial the ship switch to "—", and finally use the remote control to control the wireless remote control robotic arm!



STEP 52

- How to operate and use the remote control.



STEP 53

- Referring to the figure above, first fasten Board ④ to Board ③ and Board ③ with 7mm coarse-thread screws, then attach the foot pads onto Board ④.



Is production in trouble?

The wireless remote control robotic arm does not work properly.

1. Check whether the battery is insufficient. If the battery is insufficient, the model will not operate normally. It is recommended to replace the battery with a new one.
2. Check STEP 22 to see if the micro-motor wires are connected correctly. The wrong connection of the micro-motor wires will cause the model to fail to operate normally. It is recommended to reconnect.
3. Check STEP51 to see if the power supply of the remote control and ship switch is turned on.
4. Need more help? Customer support: Support@annisoka.com

⚠ WARNING: This tool is not a toy. Keep out of reach of children at all times.

-Do not mix old and new batteries.

- Do not mix alkaline, standard (carbon-zinc), or re-chargeable batteries.)



Science tips!

The origin of the remote control

The first remote control to open a garage door appeared in the 1950s, sending simple "on" or "off" commands at a single frequency. But as the key system became more widespread, when they tried to drive the car out, they also opened the neighbor's door. In the 1970s, the remote key and the garage door controller each had an eight-foot collective circuit switch that provided 256 different passwords, but the same set of keys and the controller were the same password. The situation seems to be better than before, but still less secure.

Now the electronic algorithm used in the switch system is the same as that of the car remote control key; the 32-bit password can provide more than 4 billion combinations.

FCC Warning:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 0cm between the radiator and your body.