

Car control routine

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Hardware Preparation

HT-10A remote control

SBUS receiver

Experimental phenomenon

Set the forward and reverse of the channel

This tutorial is mainly used with Rosmaster X3. Users who do not use this product can refer to and learn our source code!

The engineering source code corresponding to this tutorial is rosmaster.zip in the [Software Information] folder

Hardware Preparation

The following is the most streamlined hardware configuration: Rosmaster X3 has this configuration

- HT-10A remote control
- SBUS receiver
- ROS control board
- 520 motor *4

HT-10A remote control

It is necessary to install 4 No. 5 batteries in advance for the HT-10A remote control to power it:



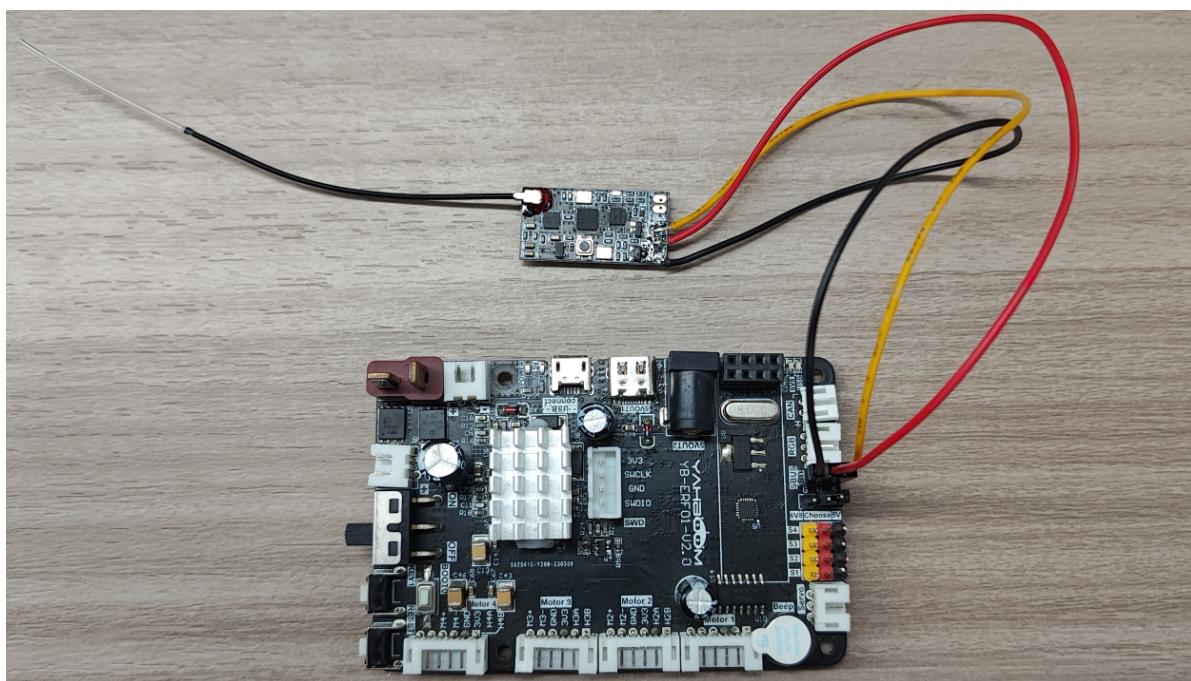
HT-10A remote control	Default channel: The remote control does not perform channel mapping
CH1	Right joystick: slide left and right
CH2	Right joystick: slide up and down
CH3	Left joystick: slide up and down

HT-10A remote control	Default channel: The remote control does not perform channel mapping
CH4	Left joystick: slide left and right
CH5	SWA channel
CH6	SWB channel
CH7	SWC channel
CH8	SWD channel
CH9	VRA channel
CH10	VRB channel

SBUS receiver

The picture shows the hardware connection between the SBUS receiver and the ROS control board:

SBUS receiver	ROS control board
S	S
+	V
-	G



Experimental phenomenon

After downloading the rosmaster.hex file of the project to the ROS control board, the HT-10A remote controller can be controlled by the joystick after the SBUS receiver is successfully paired.

HT-10A remote control	Default channel: The remote control does not perform channel mapping Default channel: The remote control does not perform channel mapping Car function	
CH1	Right joystick: slide left and right	Rotate left, rotate right
CH3	Left joystick: slide up and down	Forward, backward
CH4	Left joystick: slide left and right	Move left, move right
CH6	SWB channel	Free stop, brake stop

Note: If the control direction of the remote control is opposite to that of the HT-10A remote control, you can switch the positive and negative directions of the channel on the remote control.

Set the forward and reverse of the channel



HT-10A remote control	Function
①	Up key
②	Down key
③	Return key
④	Confirm key

Press the "Confirm key" on the main interface to enter the settings, and then use the "Up key", "Down key", "Return key", and "Confirm key" to switch different options:

