

GRS Push & Pull Spinner V2

User manual

TS-DOT-02

2022/08/12

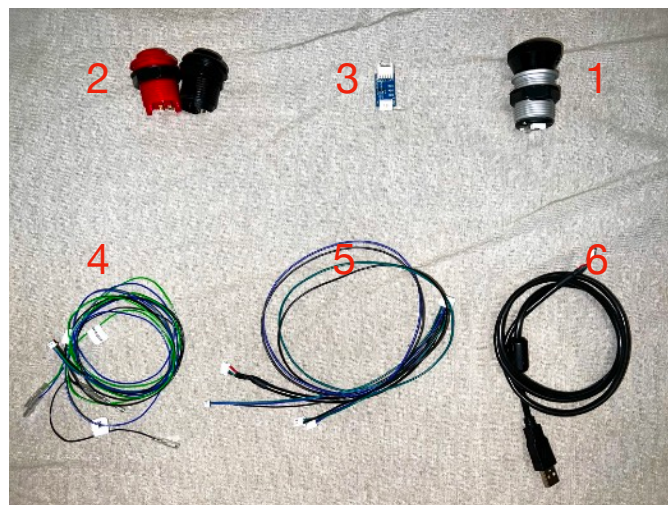
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What is included?

GRS Push & Pull Spinner V2 (TS-DOT-02)

1. GRS Push & Pull Spinner (Model Name: TS-DOT-02) X 1
2. Gold leaf arcade buttons X 2
3. Push button IO conversion board X 1
4. Wiring harness for scroll up and scroll down buttons X 1
5. Wiring harness for push button IO functionality X 1
6. USB cable



How to hook up the spinner with push buttons for mouse scrolls?

GRS spinner configuration tool V 1.28

This application is only available to be used for newer version fo GRS spinner(TS-BSP-02,TS-DOT-02 and above)

Model name V 0.00

X/Y Axis Apply

Resolution Apply

Change PID Apply

Factory reset

Scan for GRS spinner

Z-Axis Calibration (DOT Spinner only)

MIN

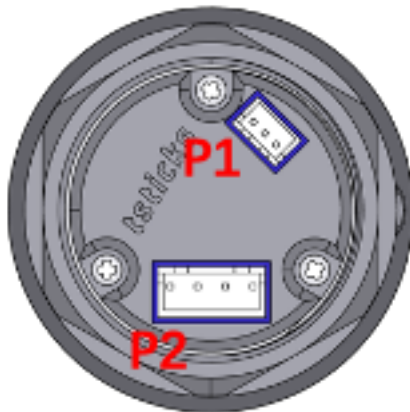
MID

MAX

Start calibration Apply

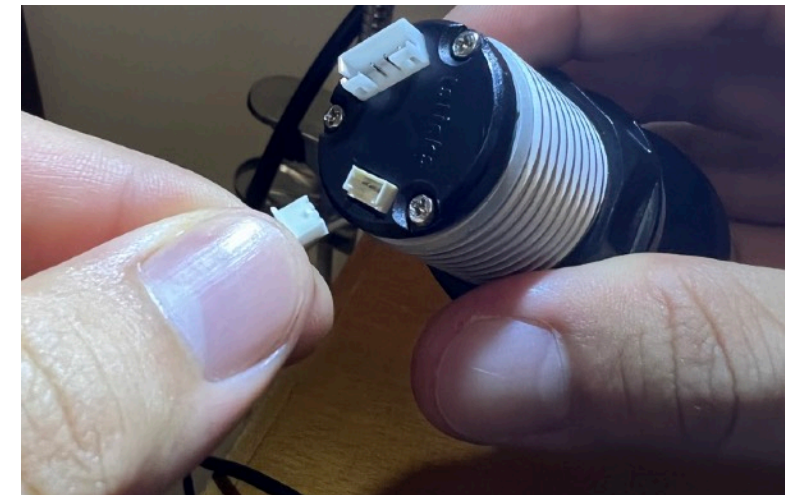
Button output for push/pull Apply

1. Click start button to start calibration.
2. Pull up the spinner knob to the maximum position and rotate the knob while maintaining at the maximum position.
3. Push down the spinner knob to the maximum position and rotate the knob while maintaining at the maximum position.
4. Click apply to save the configuration.

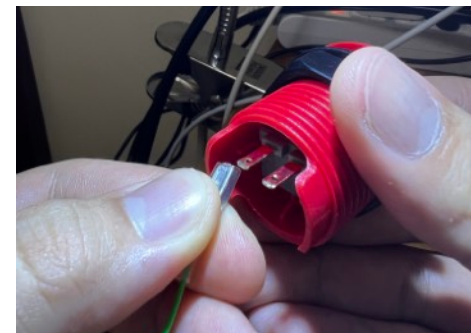


Spinner JST Connector

1. Use the wiring harness for scroll up and scroll down buttons
2. Make sure the button output mode is **"Disable"**
3. Connect the wiring harness for scroll buttons JST side to the spinner P1



3. Hook up the green (Signal) wire and black (GND) wire for scroll down button



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How to hook up the spinner with push buttons for mouse scrolls?

4. Hook up the blue (Signal) wire and black (GND) wire for scroll up button



6. Now hook up the USB cable JST side to the spinner P2



5. You should see something like this if everything has been connected correctly



7. Finally connect the USB cable to your device, GAME ON!



How to enable push & pull to function as standard button output?

GRS spinner configuration tool V 1.28

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Model name V 0.00

X/Y Axis Apply

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Scan for GRS spinner

Z-Axis Calibration (DOT Spinner only)

MIN

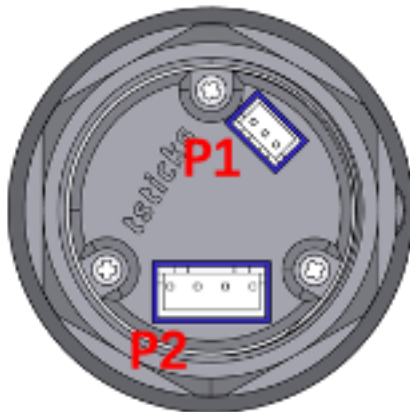
MID

MAX

Start calibration Apply

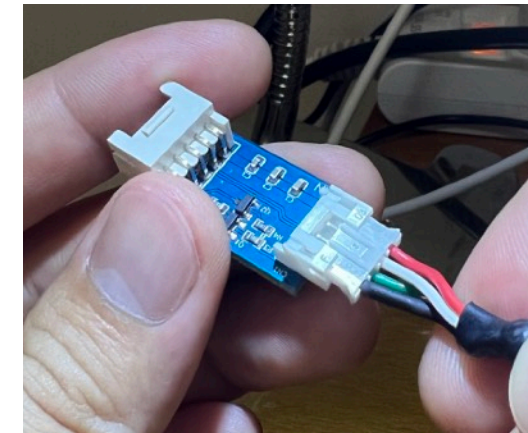
Button output for push/pull Apply

1. Click start button to start calibration.
2. Pull up the spinner knob to the maximum position and rotate the knob while maintaining at the maximum position.
3. Push down the spinner knob to the maximum position and rotate the knob while maintaining at the maximum position.
4. Click apply to save the configuration.

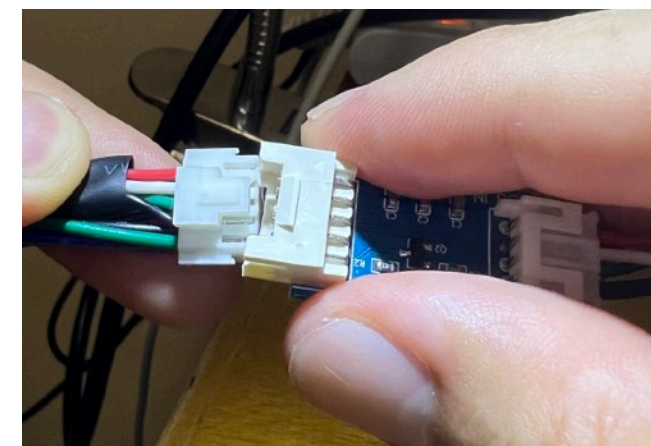


Spinner JST Connector

1. Make sure the button output mode is **“Enabled”**
2. Connect the USB wiring harness JST side with the conversion board



3. Connect Wiring harness for push button larger JST side with the other side of the conversion board



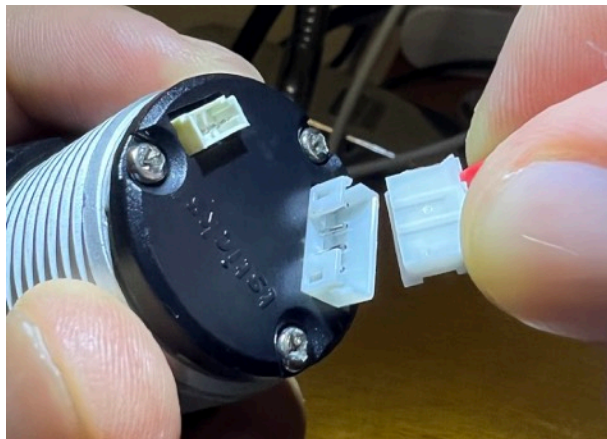
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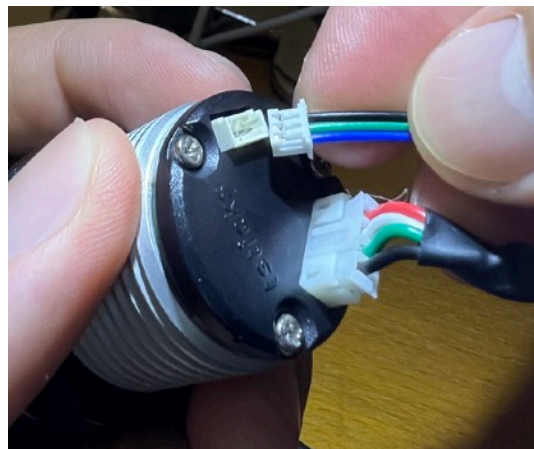


How to enable push & pull to function as standard button output?

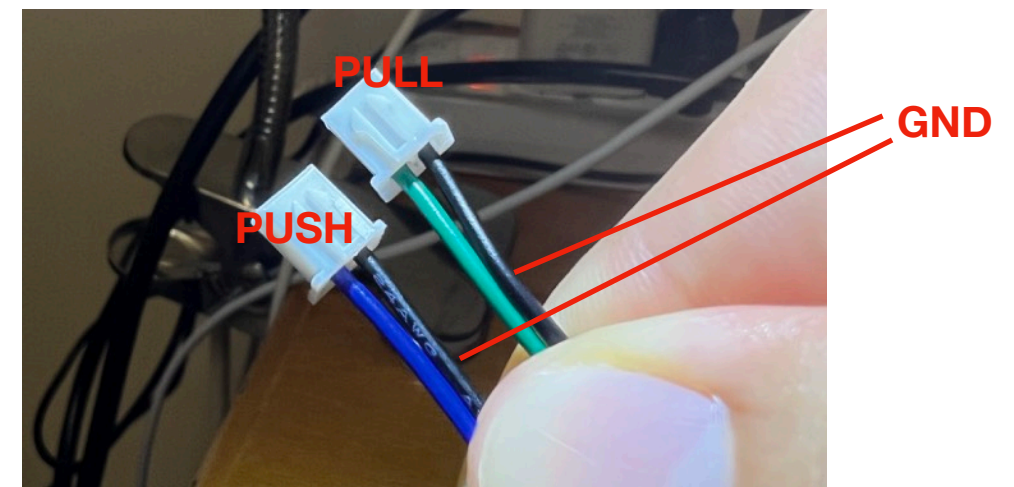
4. Now hook up the wiring harness for push button IO larger JST connector with P2 on the spinner



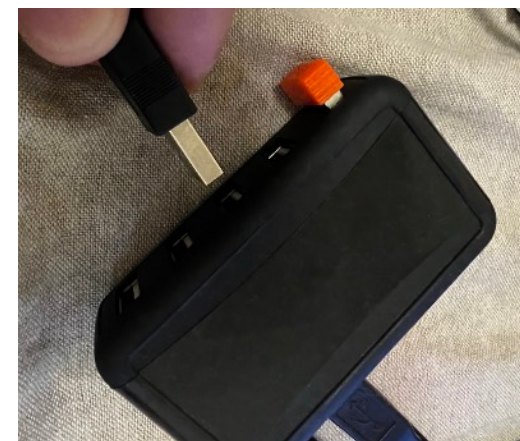
5. Hook up the smaller connector from wiring harness for push button with P1 on the spinner



6. Setup is completed you can now connect these two JST 2.54 connector for push and pull button with your external encoder board



7. Finally connect the USB cable to your device, GAME ON!



GRS Spinner Configuration Tool - User Guide

(For TS-DOT-02 and TS-BSP-02 and above version only)

2022/05/7

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Features of GRS Spinner Configuration Tool

- Configurability for spinner cursor movement between X and Y Axis
- Configurable resolution between 3 different preset CPIs: 360, 720, and 1440
- Ability to append an ID to the spinner driver's name
- Ability to enable push and pull function as a standard button IO signal
- TS-DOT-02 or above "Push" and "Pull" button calibration
- [Download here](#)



GRS Spinner Configuration Tool

(For TS-DOT-02 and TS-BSP-02 and above version only)

Spinner model name and
firmware version

GRS spinner configuration tool V 1.28

This application is only available to be used for newer version for GRS spinner(TS-BSP-02,TS-DOT-02 and above)

Select between X and Y
axis for cursor
movement. Click apply to
save change

Change the spinner
resolution between 360,
720, and 1440 CPI. Click
apply to save change

Change the product ID
displayed at driver level.
Click apply to save
change

Model name V 0.00

X/Y Axis Apply

Resolution Apply

Change PID Apply

Factory reset

Scan for GRS spinner

Z-Axis Calibration (DOT Spinner only)



MIN

MID

MAX

Start calibration

Apply

Button output
for push/pull

Apply

TS-DOT-02 push &
pull button
calibration. Click
apply to save change

Enable/Disable TS-
DOT-02 push & pull to
function as a
conventional push
button. Enable this
mode to allow the
signal for the "push"
and "pull" buttons used
with the external
encoder board

1. Click start button to start calibration.
2. Pull up the spinner knob to the maximum position and rotate the knob while maintaining at the maximum position.
3. Push down the spinner knob to the maximum position and rotate the knob while maintaining at the maximum position.
4. Click apply to save the configuration.

Instructions for
calibration

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