

Installation:

Connect the right drive ESC to **RIGHT**, and left drive ESC to **LEFT** (observing polarity).

Mixed Mode: Connect **FB** to ELEVATOR (**CH2**), **LR** to AILERON (**CH1**), and **INV** to GEAR (**CH6**) (or whichever is convenient).

No-Mix Mode: Connect **FB** to ELEVATOR (**CH2**), **LR** to THROTTLE (**CH3**), and **INV** to GEAR (**CH6**) (or whichever is convenient).

(*HK-T6A radio channels in **green**)

To not use the invert function, simply leave the single INV wire unconnected. To later use it, power must be cycled after the connector is plugged in.

Invert can also be used to make the back of your robot into the front. For example, if you want to attack with the rear wedge instead of the front weapon. Some large or cheap motors can send electrical noise along the signal wires.

Add a 0.1uF capacitor across each motor's terminals to keep the tinyMixer from seeing this noise as false signals.

Calibrating (v1.7):

The tinyMixer needs an accurate center position for Invert to function properly.

- To calibrate, plug the INV wire into a Ground pin on your receiver then power on the tinyMixer. It will begin to flash.
- Center your transmitter trims and sticks and power it on.
- Remove the INV wire from the ground pin. The LED will go solid and save the center position. Cycle the robot power to reboot.

*If your ESCs need to be calibrated, do so after the tinyMixer.

Operation:

Ensure transmitter stick and trims are centered when powering on. These are recorded each session and used for the Invert function. [Pre-v1.7 only]

- To activate Invert, move the INV channel above 70%.

Normal Driving: Led solid-on

Inverted Driving: LED flashing

Signal loss (failsafe): LED slowly blinking (1 short flash per second)

Switching between Mixed/No-Mix mode:

- The tinyMixer is shipped in Mix mode by default. It can be switched between Mix and No-Mix (two-stick, aka "Tank") driving mode. (Invert can be used in either mode.)
- With the LR wire disconnected, push the stick to the top and hold (the LED will

flicker). After 4 seconds the LED will blink repeatedly to indicate No-Mix mode, or go solid for Mixed mode. The robot's power will now need to be cycled to reboot into the new mode. (Don't forget to now plug in the LR channel).