



# G.T.POWER®

## CONTAINER TRUCK LIGHTING AND VOICE VIBRATION SYSTEM PRO

HIGH END LEVEL  
ITEM-103062



• Control Module • Speaker • Vibration Motor • Lights • ESC

Thank you for purchasing the Container Truck Lighting and Voice Vibration System Pro. This unit integrates multiple effects into one, such as the ESC, lighting, sound, vibration and so on. You can set the working mode and control lighting switch by phone. It is easy to operate and can achieve perfect effect. Please read this entire operating manual completely and attentively before using.



Download on the  
App Store



GET IT ON  
Google Play



Bluetooth

Scan the QR code to install  
the App of TRUCK L&S

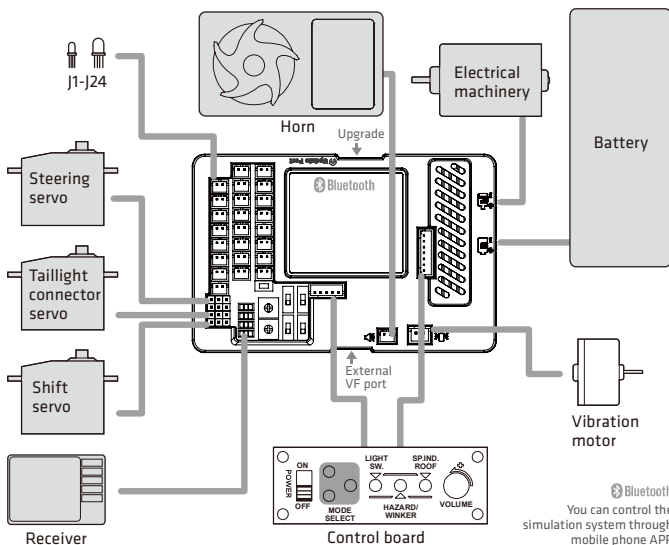
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## Warnings and safety notes

- Please connecting to the device and offer the power according to the manual
- Please ensure that no batteries connected before connecting or dis-connecting the device.
- Please do not cover the surface of speaker vibration and place it to ventilated place
- The speaker volume should be lowered to minimum to avoid damage before the unit first use or re-use
- In order to make the sound effect to better, please do not put strong magnetic and interference items around the speakers.
- Please calibrate the remote controller before using to achieve a better effect.

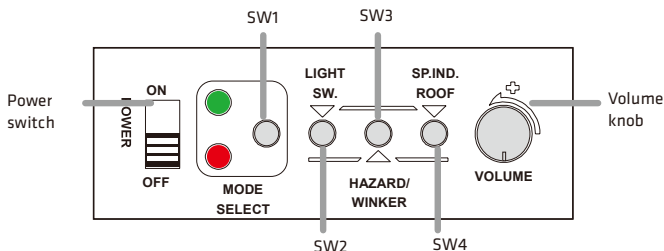
## Connecting diagram



The remote controller which equipped with at least 4 channels to using.

According to the diagram as below, connect the throttle motor, battery (2S/3S LiXX), horn, vibration motor, light cable, main control board, remote controller , receiver, steering servo, shift servo, etc.

## Control board:



Power switch:

To control the whole sound unit.

SW1:

(MODE SELECT)

Alternation switching mode. normal mode (Both red and green lights ON)-ESC mode(green light ON)- Manual mode(red light ON)

Simulation mode: all functions are available.

ESC mode: the motor(not vibration motor) which with ESC output will run.

Manual mode: Lights can only be operated by manual

SW2:

(LIGHT SW.)

Light Alternation switching mode: Lights OFF- roof lamps -head lights - fog lamps

Lights Off: All lights turned off;

Roof lamps: Only roof lamp constantly light on

Head Lights: roof lamp, head light constantly light on

Fog lamps: roof lamp, head light and fog lamp constantly light on

SW3:

(HAZARD/WINKER)

Turn signal/ Hazard lamp switch

When turn on the hazard lamp, left and right turn signal will flash and along with alarm sound effect.

SW4:  
(SP,IND,ROOF)

Roof lamp, speed indicator switch mode  
Roof lamp and speed indicator share a same set yellow LED light.Choose different light mode, will appear different light effect. If choose roof mode, 3 led light will turn on or turn off at the same time.  
If choose speed indicator mode and increase the throttle, then more lights will ON, show as below.



Low gear



Second gear

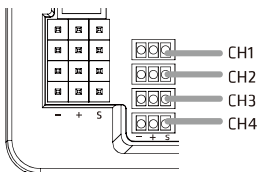


Top gear

Volume knob:

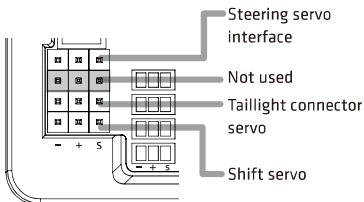
Adjust speaker volume.Turn clockwise to minimum and vice versa.

## Input channel (connected to remote controller):



In the order from top to down listed below,  
CH1,CH2,CH3,CH4;

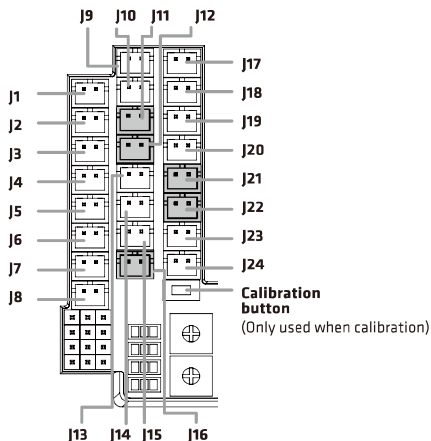
## Output channel (connected to servos and motors):




From top to bottom: Steering servo interface, not used, taillight connector servo, shift servo.

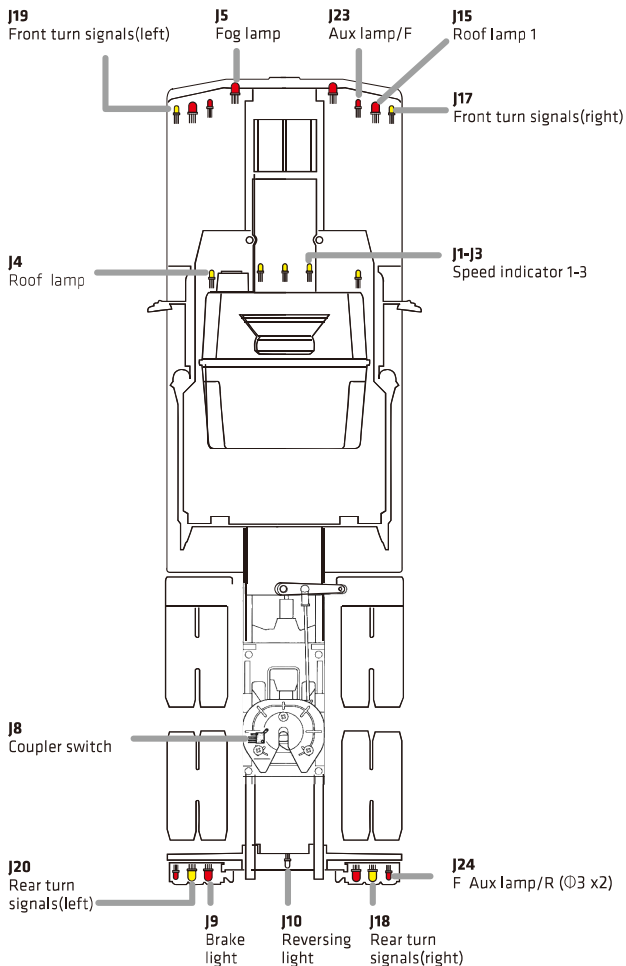
Remark:Near the left side is the negative pole (grounding), the middle is the positive pole, and the right side is the signal line. (diagrammatic sketch)

## Connecting cables and connectors according to the code listed as below:

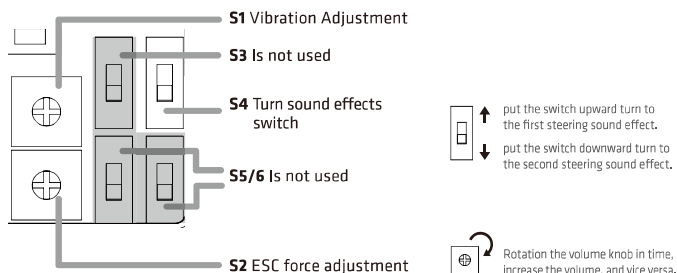


 The color of the tube represents the color of the lamp.

J1-J3:	Speed indicator 1-3	Ø3	Yellow
J4:	Roof lamp	Ø3-Ø3	Yellow
J5:	Fog lamp	Ø5-Ø5	White
J6:	Tail turn signals(left) on the container	Ø3	Yellow
J7:	Tail turn signals(right) on the container	Ø3	Yellow
J8:	Coupler switch		
J9:	Brake light	Ø5-Ø5	Red
J10:	Reversing lamp	Ø3	White
J11/J12:	Is not used	*	*
J13:	Tail brake light on the container	Ø5-Ø5	Red
J14/J15:	Roof lamp2; roof lamp 1	Ø5-Ø5	White
J16:	Is not used	*	*
J17:	Front turn signals(right)	Ø3	Yellow
J18:	Rear turn signals(right)	Ø5	Yellow
J19:	Front turn signals(left)	Ø3	Yellow
J20:	Rear turn signals(left)	Ø5	Yellow
J21/J22:	Is not used	*	*
J23/J24:	Aux lamp/F Aux lamp/R	Ø3-Ø3	White



## Adjustment



**S1 Vibration Adjustment:**  
Adjust the speed of the vibration motor, the direction as shown in the figure counter-clockwise rotation for maximum speed, and vice versa, when motor speed is zero, not rotate.

**S2 ESC force adjustment:**  
adjust the ESC output capacity, the direction as shown in the figure counter-clockwise rotation for the maximum speed, and vice versa , when motor speed is zero ,not rotate;

**S3 Is not used**

**S4 Turn sound effects switch:**  
There are 2 turn sound effects, and you can choose the type of sound effect you like through this switch. This function only will take effect when reboot.

If you choose the second turn sound effect, and open the hazard light at the same time, no sound effect occurs.

**S5/6 Is not used**

## Upgrade

Turn off the power switch of the equipment, then hold down the mode key and the headlight switch key at the same time, and release the key after you turn on the power switch. Connect the USB cable to the computer, an update disc character will appear on the computer. Copy the latest update file to the disc character to complete the update.



## Bluetooth user manual:



Scan the QR code to install the **App of TRUCK L&S**

This unit contains Bluetooth module. You can connect it to your phone via Bluetooth. Scan the above QR code to download the container truck sound and light vibration system APP, and set relevant parameter on the APP, control all the modes and lights through the App. The remote controller may not be able to trigger some specific functions due to hardware constraints, but through this APP, it is easy to get it. The specific operation is shown as below.



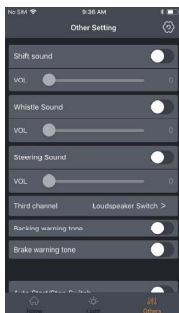
### • Mode setting:

The mode setting are consistent with the control board setting, you can refer to the control board instructions.



### • Lighting control module:

In the Lighting control module, you can choose automatic, constantly bright and closed three modes. Automatic mode can accept remote control, while the other 2 modes can not.

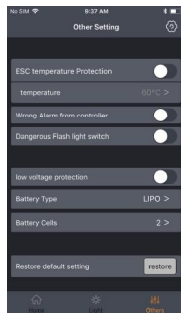


### • The third channel function:

Through the third channel on the remote controller, you can select the function of the horn switch or the function of the Coupler switch.

Remote controller input error alarm:

When the remote controller input error, the horn will alarm, and the APP home page will appear the alarm signal.



### • Low voltage protection:

If turn on this function, system will shut down when each cell voltage lower than 3.3V.

ESC reverse setting: The Esc can be set forward or reverse to control the motor.

You can use the above settings to match a set of satisfying sound and lighting effect.



### • Automatic start/stop:

When you start this system, if the throttle is in the middle position, the vehicle is stationary and the engine is idle, if you turn on the automatic start/stop system, the engine will self-extinguish after a delay according to the time you set (5S-60S). The engine will only restart when you touch the throttle again. You can choose shut down the automatic start/stop system, in this situation, at any state, as long as the engine has started, the voice system will be working all the time.

Starting sensitivity: Through start sensitivity (0-100) for rapid or normal starting engine.

ESC neutral switch: When the function is turned on, the vehicle will not move forward. The function can be used to set relevant modes. When the function is turned off, the vehicle can move forward normally.

## Calibration description:

### Remote controller calibration

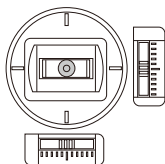
Note: When using this product for the first time, you need to use the remote controller to calibrate the product. The calibration steps are as follows:

Long press the calibration button, when hear one beep sound, then calibrate 1,2,3,4 channel in turn, from centre position to the maximum position and then to the minimum position. You will hear a short beep sound when calibration finished, and a long beep sound when each channel calibration finished. You will hear 3

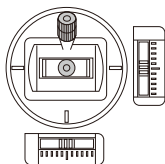
short beep sounds when calibration failure. It will exit automatically when calibration completed.

(The System default setting is , channel 1 and 4 to the right for the maximum value, left for the minimum value, channel 2 and 3 up for the maximum value, down for the minimum value, if you set the position value by yourself, adjust by yourself when calibration)

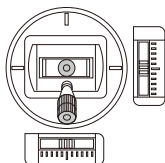
The following is the calibration diagram (taking throttle channel as an example):



- 1 Long press the calibration button, after one beep sound, confirm the throttle in neutral position , press the calibration button to calibrate till hear one beep sound.



- 2 Move the throttle channel to the maximum throttle position, press calibration button till hear one beep sound to finish calibration.



- 3 Move the throttle channel to the maximum throttle position, press calibration button till hear one beep sound, then put the first channel back to the neutral position, you will hear a long beep sound, then the whole first channel calibration is completed.

The remaining 3 channels are calibrated in the same way. It will exit automatically when calibration is completed.

## Servo position calibration:

Disconnect the power supply, keep the first channel and the third channel maximum power on, and enter into the servo position calibration mode.

Put the steering and shifting servo plugged into the circuit board to control S1 and S2 respectively. It can control the position of the shift servo and steering servo. Adjust the position of the two servo to the best, and then press the calibration button. It will beep one time after success, and it will beep three times after calibration failure. Calibration of the position of the two steering engine is divided into three steps: 1. move S1 and S2 to let the servo to the neutral position, press the calibration button; 2. move S1 and S2 to let the steering gear to its

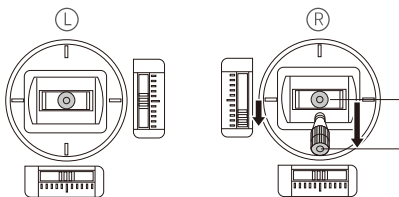
maximum position and press the calibration button; 3. move S1 and S2 to let the servo to the minimum position and press the calibration button till calibration is completed;

PWM calibration and servo position reset mode: Press and hold the calibration key under power off, then turn on the power, you will hear a continuous beep sound, all the LED lights will light up for about one second, then the reset is completed. You need consistently hold on the button during the reset procedure. All calibration values and servo position calibration values will be back to the factory default settings.

## Introduction of the remote controller special control ways

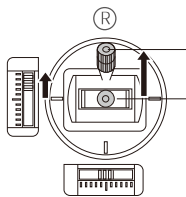
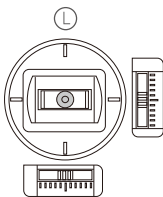
### • Light selection mode

Slightly move down the third channel of the remote controller transmitter to the end, then move down the third channel of the remote controller to turn on the roof lamps, head lights, fog lamps successively till turn off the light.



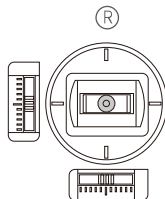
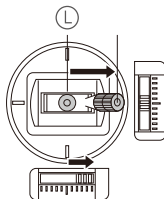
- **Hazard warning lamp on and off**

Slightly move up the third channel of the remote controller transmitter to the end, then move up the third channel of the remote controller to the end to turn on or turn off the hazard warning lamp (Left and right turn lights flash at the same time).



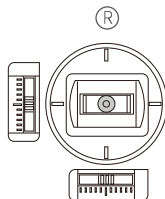
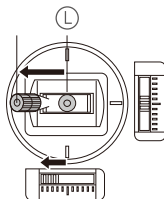
- **Neutral mode**

Slightly turn the 4th channel of remote controller transmitter to the left end, then turn the 4th channel of remote controller to the left end to turn on or turn off the neutral mode.



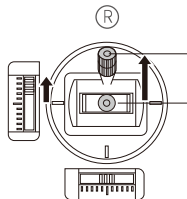
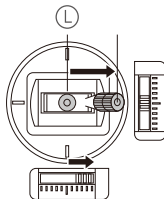
- **Switch the drawbar server and horn**

Slightly turn the 4th channel of remote controller transmitter to the right end, then turn the 4th channel of remote controller to the right end to switch the third channel function, that is to switch the drawbar server and horn.

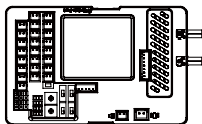


- **Stall the car**

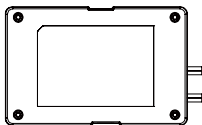
Slightly turn the 4th channel of remote controller transmitter to the right end, and slightly move up the third channel to the end, then turn the 4th channel to the right end and move up the third channel to the end to stall the car. If need to re-start up, you can do it again or restart after power off.



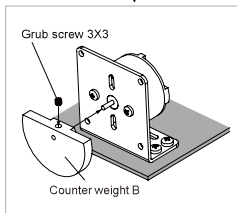
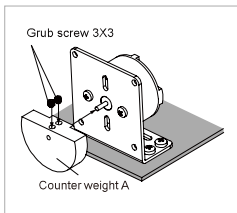
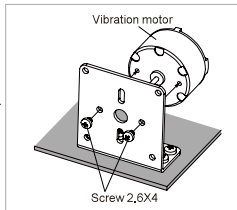
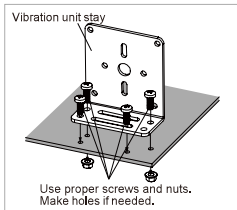
## Assembly description:

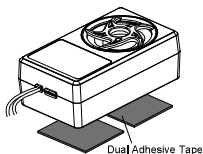


- 1 Wipe clean the bottom of the main control box, control board and horn before installing it. Use the 3M sticker sticks to the right place on your car (different brands and different styles of cars can be applied), or use your own adhesive.



- 2 The vibrating motor will be fixed with four PA3.5\*8 screws, due to the large vibration, you have to fixed it well in case of any accidents.





- 3 Sound effect will be affected by the mounting surface material and size, we propose you to choose a appropriate location to install the horn.

## Specifications:

Operating voltage range:	DC 7-14V;
Maximum working current for each light pack:	30mA;
Speaker:	Inner resistance $4\Omega$ , Power $\geq 10W$
Remote controller:	More than 4 channels
ESC current:	Max 30A;

## Product list included in the package:

Main control box:	1pc
Main board:	1pc
Vibration motor:	1pc
Speaker :	1pc
Light lines:	1set
Operating manual:	1set
Accessories:	1set

## Warranty

We warrants this product for a period of one year (12 months) from the date of purchase. This guarantee covers any material or design defects that are present in the product at the time of purchasing. During that period, we will repair or replace free of charge any unit that is determined to have failed as a result of those causes. The warranty does not cover failure as a result of wear, misuse, use of incorrect accessories or a failure to fully follow the guidelines in this instruction manual. You will be required to present a proof of purchase in order to make a warranty claim. The warranty is valid for the original purchaser of this unit only and is not transferable.



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