TRUCK L&S 60A

G.T.POWER®

CONTAINER TRUCK LIGHTING AND VOICE VIBRATION SYSTEM PRO (EU) 60A

• Speaker • Vibration Motor • Lights • ESC

Thank you for purchasing the Container Truck Lighting and Voice Vibration System Pro (EU) 60A. 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

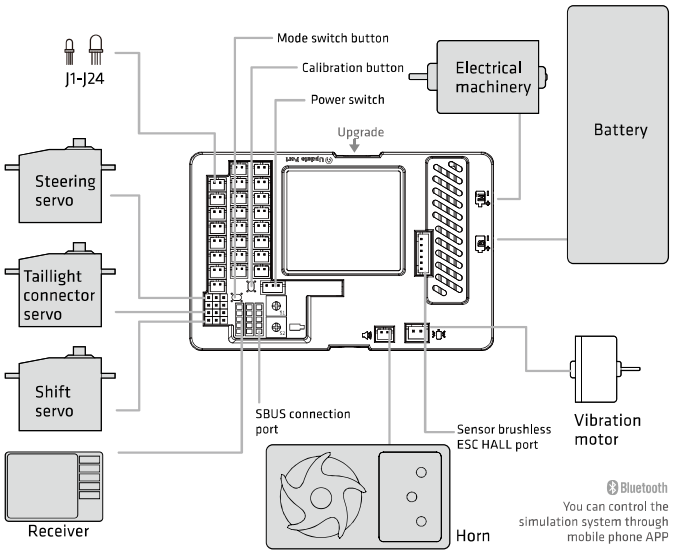
Scan the QR code to install the App of TRUCK L&S 60A

Contents

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 set 4 digits pin for the device after you download the APP for safety consideration
- Please do not cover the surface of speaker vibration and place it to air ventilated place
- The speaker volume should be lowered to minimum to avoid damage before the unit first use or re-start 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.

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.

Power switch:	To control the whole sound unit.
Mode select: (main board LED indicator indicate working mode, this function can set on your phone APP or you can choose it from the mode select key)	Simulation mode (all lights ON)-Manual mode(all lights ON) -ESC mode(light off),three light modes switch in turn. Power on is defaulted simulation mode, then press mode switch key to manual mode, press again to the esc mode. Simulation mode: all functions are available, blue indicator constantly light. Manual mode: Lights can only be operated by manual,blue indicator constantly light. ESC mode: the motor(not vibration motor) which with ESC output will run, indicator light off.
Light Switch: (this function can use through your phone APP or controller)	Lights OFF- roof lamps -head lights - fog lamps in turn. 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
HAZARD/Alarm switch: (this function can use through your phone APP or controller)	When turn on the hazard lamp, left and right turn signal will flash and along with alarm sound.
SP.IND.ROOF switch: (this function can use through your phone APP or controller)	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:	Can adjust speaker volume through controller or phone APP. The default speaker volume value is 50%.

Esc Description

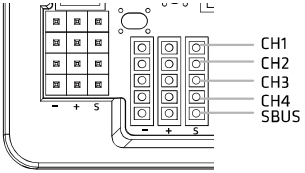
This product supports brush and brushless ESC, and supports maximum current is 60A. You can select brush and brushless ESC mode through phone APP. System defaulted mode is brushless ESC mode. After the two modes are switched, the system must be restarted to take effect

⚠ Warnings

You have to set the right mode when using brush and brushless ESC in case cause permanent damage to the machine.

1. There are two lines B and C (yellow and green) for brush ESC using, and phase line A (blue) suspended.
2. When using brushless ESC, you can choose Hall mode or Hall-free mode in app. (Please note that Hall line has corresponding relationship with main line. If it cannot start up, you need to exchange the sequence of main lines. Among these six connection ways, only one way is right. Hall sensor only support 120 degree installation mode, and Hall power supply voltage is 4.9-7v).
3. You can set the maximum current of the ESC in app (according to the ESC actually supported current).
4. The brushless ESC speed control mode can be set in app, including common mode and constant speed mode. The common mode is that output power is determined by the throttle position, and the constant speed mode is that output speed is determined by the throttle position (Common mode is recommended).
5. It supports the angle setting in the no sense mode of brushless ESC, and the range is 0-30 degrees. The recommended angle is 25 degree. Users can fine tune the ESC according to the actual situation.

Input channel (connected to remote controller):



In order from top to bottom listed below,CH1, CH2, CH3, CH4; SBUS/PPM channel;

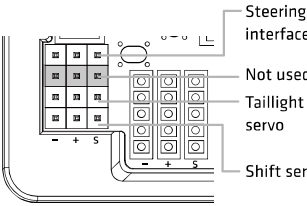
SBUS / PPM multi-channel fine tuning control function

When the remote controller with more than 4 channels, other channels can be set another special function channel (set through the mobile phone app), no necessary to use complex operations such as fine-tuning.

Please note that the function channel set should be selected according to the remote controller's actual channel function (including 2-gear switch, 3-gear switch and potentiometer)（For example, it is recommended to use potentiometer channel for volume control).

Please note that the channel signal priority is SBUS (up to 14 channels) > PPM (up to 8 channels) > PWM (4 channels). When recognized the high priority signal, the signal with inferior priority will automatically fail. SBUS is the fifth input channel (dedicated). PPM channel is the first channel input of the original PWM channel, and 1-4 channel are the original PWM channel input.

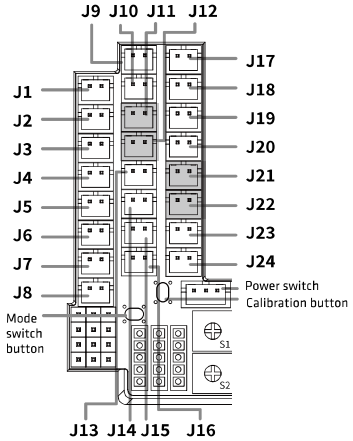
Output channel (connected to servos and motors):



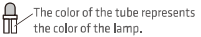
In order from top to bottom: Steering servo interface, not used, taillight connector servo, shift servo.

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

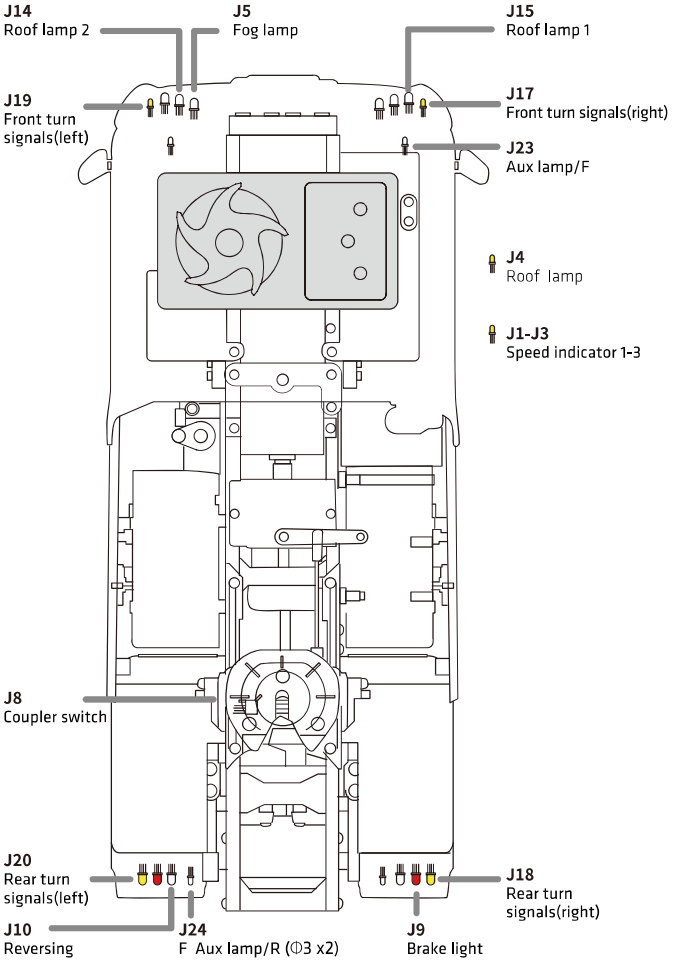
Light control module



In light control module, you can choose auto, constantly light and constantly off three mode. Auto mode accepts controller control, constantly light and constantly off mode can not be controlled by controller.



J1-J3:	Speed indicator 1-3	Φ3	Yellow
J4:	Roof lamp	Φ3-Φ3	Yellow
J5:	Fog lamp	Φ5-Φ5	White
J6:	Tail turn signals(left) on the container	Φ3	Yellow
J7:	Tail turn signals(right) on the container	Φ3	Yellow
J8:	Coupler switch		
J9:	Brake light	Φ5-Φ5	Red
J10:	Reversing lamp	Φ3-Φ3	White
J11/J12:	Is not used	*	*
J13:	Container trailer wireless taillight	Φ5-Φ5	Red
J14/J15:	Roof lamp2; roof lamp 1	Φ5-Φ5	White
J16:	Is not used	*	*
J17:	Front turn signals(right)	Φ3	Yellow
J18:	Rear turn signals(right)	Φ5	Yellow
J19:	Front turn signals(left)	Φ3	Yellow
J20:	Rear turn signals(left)	Φ5	Yellow
J21/J22:	Is not used	*	*
J23/J24:	Aux lamp/F Aux lamp/R	Φ3-Φ3	White


J14
Roof lamp 2
J5
Fog lamp
J15
Roof lamp 1
J19
Front turn signals(left)
J17
Front turn signals(right)
J23
Aux lamp/F
J4
Roof lamp
J1-J3
Speed indicator 1-3
J8
Coupler switch
J20
Rear turn signals(left)
J18
Rear turn signals(right)
J10
Reversing
J24
F Aux lamp/R (Φ3 x2)
J9
Brake light

Restore factory default settings

Hardware restore factory default settings: When power on 5-20 seconds, press and hold the two set buttons (calibration key and mode switch key) above 5 seconds. At this time, all the LED light rapidly flash, and the horn emits a rapid drip sound. Then release the button to restore the factory settings, including: remote control calibration info., servo position calibration info., phone APP settings, APP link password.

Mobile phone APP restore factory default settings: only restore the phone app settings, the rest are not restored.

Download App

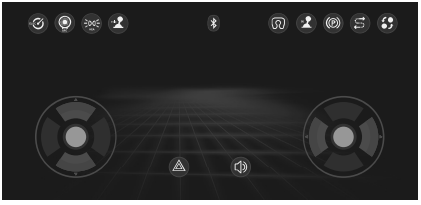
The product with Bluetooth module. You can use your phone to download its APP through connecting Bluetooth module. Through download the app (by scanning the QR code above), you can set relevant parameters on the app, control all modes and lights through app, and use the phone remote controller. Moreover, through app, it can avoid some specific functions that cannot be triggered due to the hardware difference of remote controller. It is easy to operate through phone, shown as below figure;

Download on the App Store

GET IT ON Google Play

Scan the QR code to download APP.

Notes:
Due to the mobile phone can directly control the vehicle, for safety, you need to set a 4-digit word password when connect your phone with app. If the password is not modified, it only needs to enter the password once for the same phone. If you forget the password, use the main board to restore the factory settings, and no password by default.



Open the setting interface and select the "remote control" option to open the phone remote control, functions show as below.

Roof lamp/ speed indicator switch:
Please refer to the introduction of roof lamp switch.

Brake:
parking in place

Mode switch:
switch between simulation mode and ESC mode

Steering gear direction adjustment:
steering gear reverse adjustment

Light switch:
off - roof lamp - head lamp - fog lamp switch.

phone remote control handle direction switch:
the direction of the lower remote control handle is adjusted vertically, that is, the horizontal direction changes to the vertical direction

Coupler switch:
separate coupler and container

Alarm:
turn on the danger alarm lamp (left and right turn signal double flashing) and alarm sound

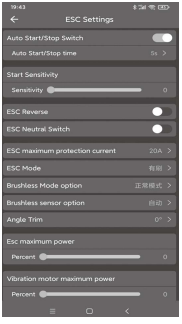
Neutral gear:
neutral in place

Horn:
turn on or off the sound of the siren

- **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:**

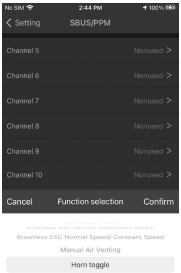
When you start this system, if the throttle is in the middle position, the vehicle is stationary and the engine is idle, if you turn on the automatic start/stop system, the engine will self-extinguish after a delay according to the time you set (5S-60S). The engine will only restart when you touch the 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.

SBUS/PPM setting

The remote control supports the SBUS function, when with more channels, you can set including the main volume adjustment, the ESC force adjustment, the vibration intensity adjustment, the double flash lamp (alarm signal), the light control mode, stall the car in place, the ESC neutral -gear switch, the third channel coupler /horn switch, the turn sound switch, the roof lamp/ speed indicator mode switch, the main mode selection , brushless ESC sensor/sensorless switch, brushless ESC the common mode / constant speed mode switch,manual air venting,Horn toggle.



• Vibration regulation:

Adjust the speed of vibration motor

• ESC force regulation:

Adjust the ESC force, that is,to adjust the output capacity of ESC.

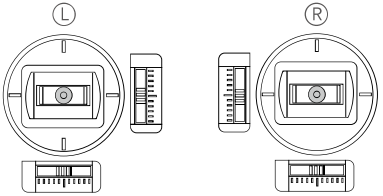
Remote controller calibration

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(take left throttle controller as an example):

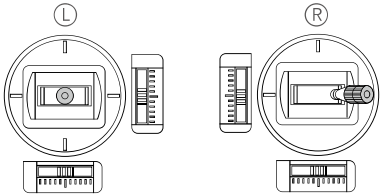
Each channel calibrate in turn, from Neutral position to the maximum position and then to the minimum position. You will hear a short beep when calibration finished, and hear a long beep when each channel calibration finished. You will hear 3 short beep when calibration failure. It will exit automatically 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)

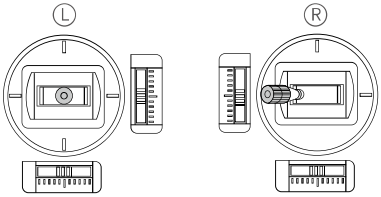
The following is the calibration diagram (taking below channel calibration as an example):



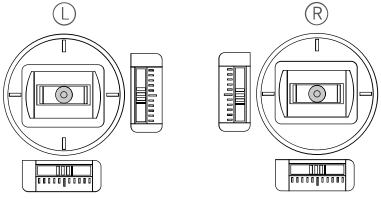
1. Long press the calibration button, after one beep sound, confirm the direction channel (the first channel)in neutral position , press the calibration button to calibrate till hear one beep .



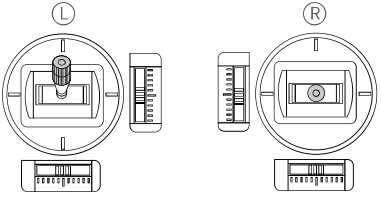
2. Move the direction channel (the first channel)to the maximum position, press calibration button till hear one beep



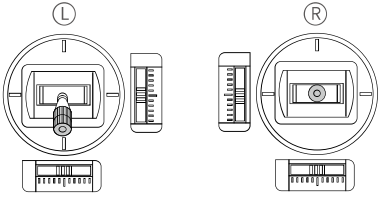
3 Move the direction channel (the first channel)to the minimum position, press calibration button till hear one beep



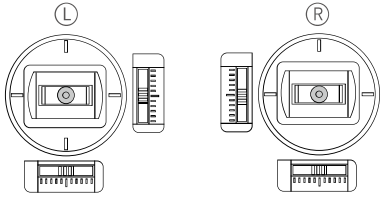
4. confirm the throttle channel (the second channel)in neutral position , press the calibration button to calibrate till hear one beep .



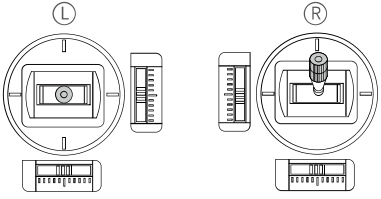
5. Move the throttle channel (the second channel)to the maximum position, press calibration button till hear one beep



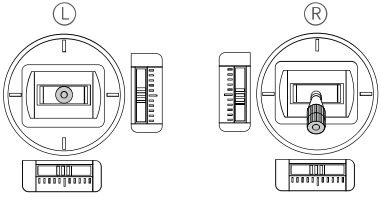
6 Move the throttle channel (the second channel)to the minimum position, press calibration button till hear one beep



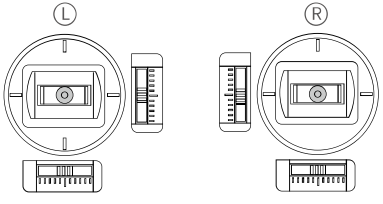
7. Confirm the third channel in neutral position , press the calibration button to calibrate till hear one beep .



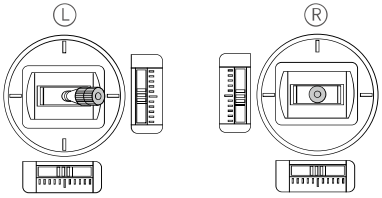
8. Move the third channel to the maximum position, press calibration button till hear one beep



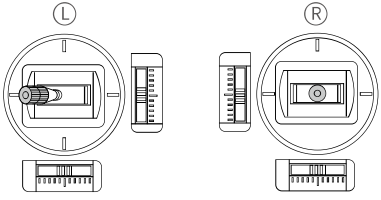
9 Move the third channel to the minimum position, press calibration button till hear one beep



10. Confirm the the fourth channel in neutral position, press the calibration button to calibrate till hear one beep.



11. Move the fourth channel to the maximum position, press calibration button till hear one beep



12. Move the fourth channel to the minimum position, press calibration button till hear one beep, then you will hear a long beep , the whole channel calibration is completed. You will hear 3 short beep when calibration failure, and you need re-calibrate.

Servo position calibration:

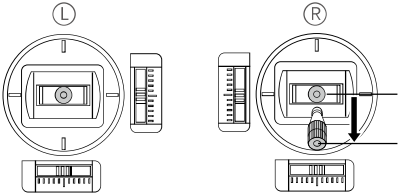
Disconnect the power supply, keep the first channel and the third channel maximum power on, and enter into the servo position calibration mode.

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

Introduction of the remote controller special control ways

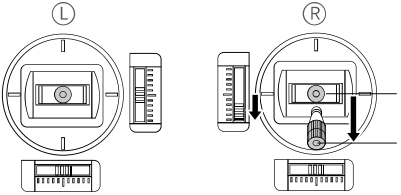
1. Ignition

Turn the third channel of the remote control to the bottom to start up.



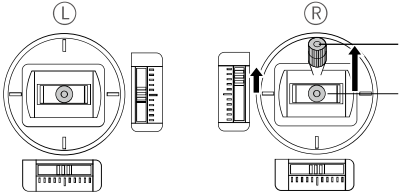
2. Light selection mode

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.



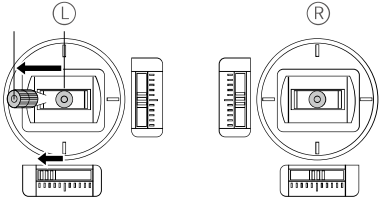
3. Hazard warning lamp on and off

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).



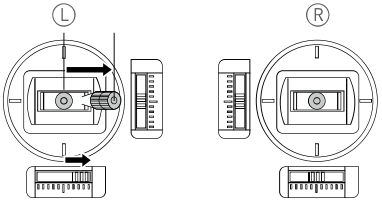
4. Neutral mode

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.



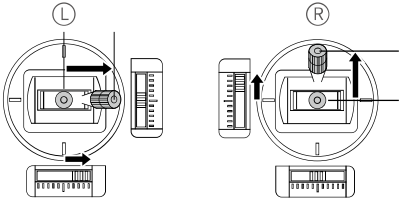
5. Switch the coupler and horn

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 coupler and horn.



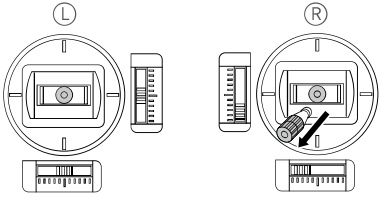
6. Stall the car

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, turn the third channel of the remote control to the bottom to start up or restart after power off.



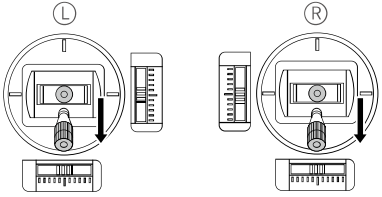
7. Steering sound switch

Slightly turn the first channel left to the bottom and the third channel down to the bottom, that is, when the remote control handler turn to the left corner can switch the steering sound.



8、Manual air venting

Turn the third channel to the bottom, then turn the second channel (throttle) down will trigger air venting.

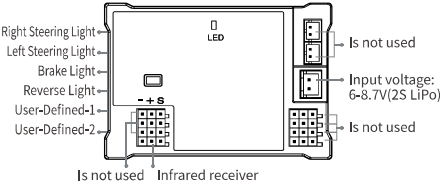


Rc Container Trailer Taillight System(optional)

This system can work with G.T. RC container trailer taillight system, it use infrared wireless tech., easy to operate.

Operation Instructions:

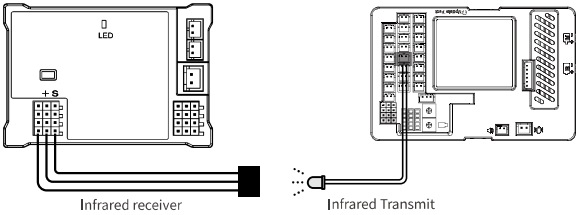
As show on the image, connect infrared transmitter port to the original brake light position (Container Truck Lighting and Voice Vibration System Pro(60A)-J13), the new brake light connect to the taillight brake light position.



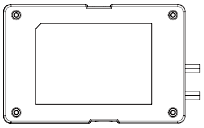
Pairing:

1. Power on the PCB of taillight, and the blue LED is constantly light. It must be paired for first time using. Here is the pairing method: Consistently press button of taillight and blue LED will blink, and then plug into the infrared transmitter of Container Truck Light&Sound System Pro, and align it with the infrared receiver. Please keep the distance as close as possible.

2. Power on the Container Truck Light&Sound System Pro. Wait for several seconds, it complete pairing when the blue LED of taillight is constantly light. If it needs to replace the main board or the control board of taillight, it requires to pair again.

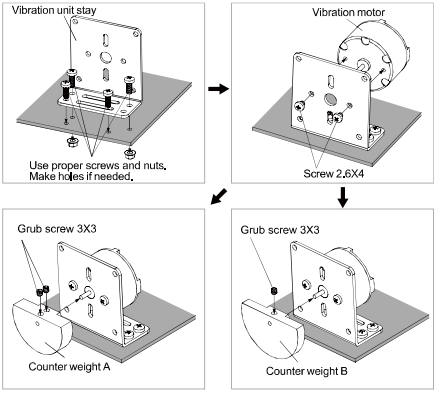


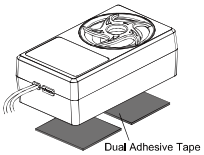
Assembly description:



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, (It is suggested to use screw glue for auxiliary fixation when installing the vibration module) 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 4Ω, Power ≥ 10W
Remote controller:	More than 4 channels
ESC current:	Max 60A;

Product list included in the package:

Main control box:	1pc
Vibration motor:	1pc
Vibration module:	2pc
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.

G.T.POWER®