

# SSD Wireless system

# MANUAL

Covered products:

- SSD Wireless Receiver DW-SSD-R-2
- SSD Wireless Receiver DW-SSD-R-4
- SSD Wireless Receiver DW-SSD-R-6
- SSD Wireless Transmitter DW-SSD-T-1

## Table of Contents

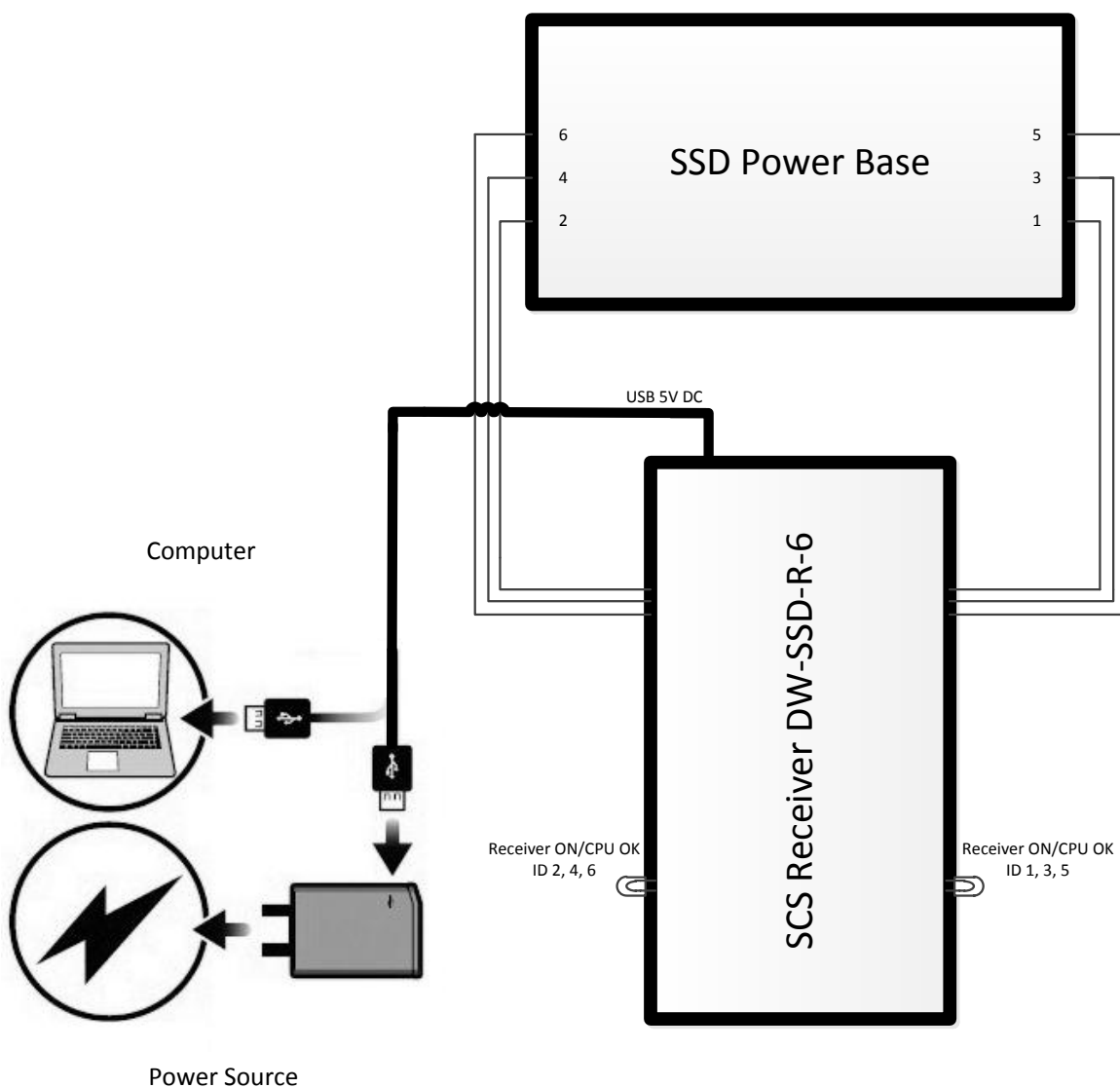
<b>1</b>	<b>THANK YOU .....</b>	<b>3</b>
<b>2</b>	<b>INSTALLATION .....</b>	<b>3</b>
2.1	CONNECTION OF SCS RECEIVER.....	3
2.2	CONNECTION OF SCS TRANSMITTER .....	4
2.3	BATTERY INSTALLATION/REPLACEMENT.....	4
<b>3</b>	<b>OPERATION .....</b>	<b>5</b>
<b>4</b>	<b>FINE TUNING.....</b>	<b>5</b>
4.1	TUNING INSIDE THE SCS TRANSMITTER.....	5
4.2	TUNING ON THE POWER BASE.....	6
<b>5</b>	<b>TROUBLE SHOOTING .....</b>	<b>6</b>
<b>6</b>	<b>WIRELESS INTERFERENCE .....</b>	<b>6</b>

## 1 Thank you

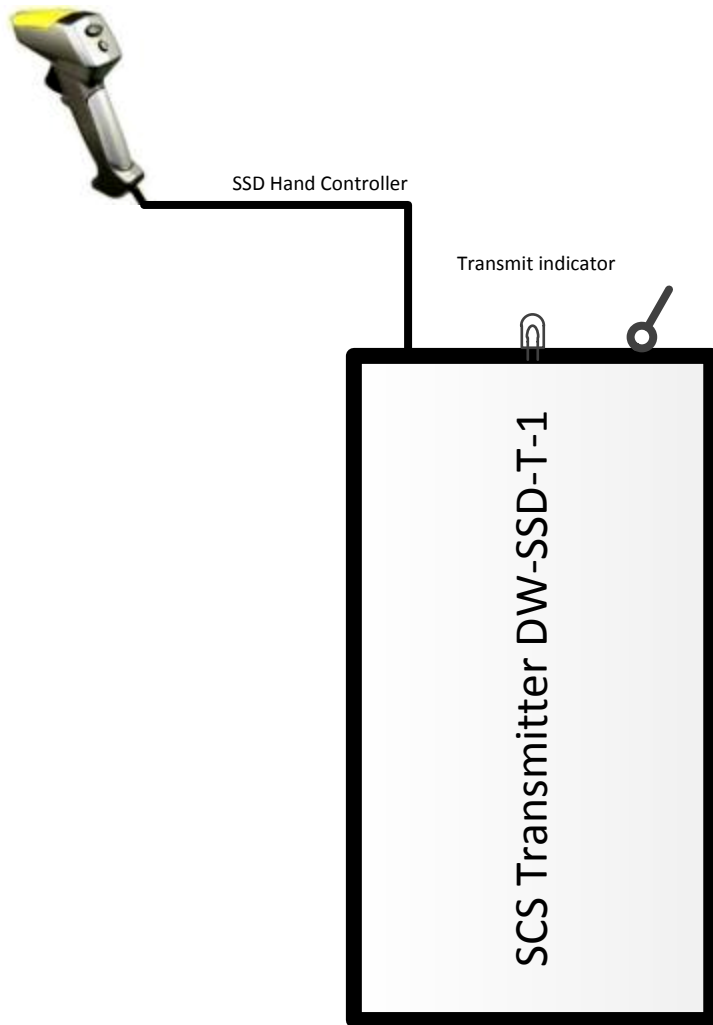
Thank you for buying SCS products. We hope it will enhance your slot car experience.

## 2 Installation

### 2.1 Connection of SCS Receiver



## 2.2 Connection of SCS Transmitter



## 2.3 Battery installation/replacement

To replace the batteries, open the transmitter box by unscrewing the screws at the bottom. Locate the batteries compartment and gently install/replace two fresh batteries. Two batteries of size AA shall be used.

Please make sure to use batteries rated for 1.5V. Rechargeable cells often rates at 1.2V and this is a little bit too low for optimal functionality of the SCS system.

### 3 Operation

1. Switch on the transmitters and confirm that the transmit indicator first blinks and then lights.
2. When the transmitters are on, connect the Receiver to any USB power source and confirm that the receiver indicators are lit. By starting up the transmitters first, the receiver will auto tune its antennas when powered up.
3. Power up the power base and race!

The SCS wireless system does not add or change any functionality; it just creates a wireless connection between your hand controller and power base. Your other functionality such as lap counters, Race management software, etc. should work exactly as before.

The range is specified to 10 meters. This is chosen as an optimal value which should be sufficient to all needs and keep the battery performance as good as possible.

It is important to know that interference may appear if the transmitter is too close to the receiver. We recommend 1 meter minimum distance between the receiver and any transmitter.

The cars might now and then make small leaps when standing still in the slot for a longer period. This is normal behaviour and caused by wireless interference. It does not affect the car in any noticeable way when racing. SCS has chosen not to add any filters to reduce this glitch when standing still, since it would reduce performance and add latency.

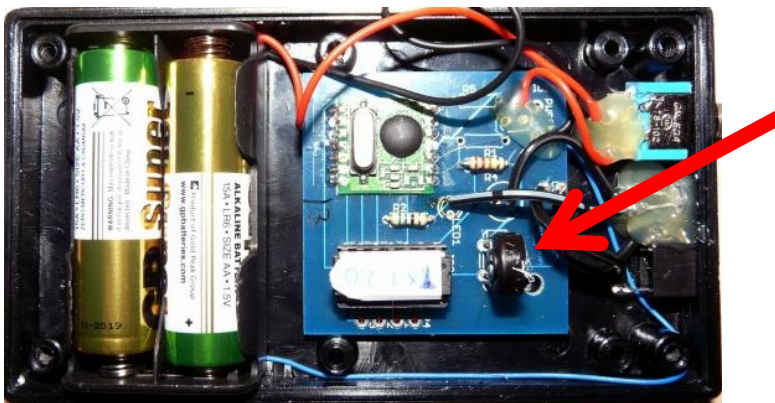
### 4 Fine tuning

#### 4.1 Tuning inside the SCS transmitter

Depending on your controllers and Power base, it might be necessary to adjust the resistance sent by the SCS receivers for optimal operation. Typical signs of this are:

- Cars not reaching full throttle when lane shift is pressed
- Cars are creeping when lane shift is pressed.

Use a screw driver to open up the affected transmitter and locate the trim potentiometer inside. Use a small screw driver to change its value. It is very sensitive, so please make very small changes.



We suggest adjusting by depressing LC button and turn the potentiometer very slowly until the car creeps and then just a little back until it stops, this should give the optimal adjustments.

## 4.2 Tuning on the Power Base

If you use the Advanced Power Base C7042 or the C7030 base with PBPro modification, there is a calibration function available in the Power base. If you experience symptoms like this:

- Cars are creeping on the track without throttle applied.

Then we suggest a tuning in the Power base. That should correct the problem.

## 5 Trouble shooting

*The cars are running uncontrolled when plugging in the power to the Power base.*

1. Make sure that the wireless transmitters are switched ON with controllers attached before powering up the Power base.

*The cars are not running smooth and behave strange.*

1. The transmitter is out of range or too close to the receiver. Try to stay between 1-10 meters from receiver.
2. The batteries in the transmitter are getting low. Replace them with fresh ones.
3. Another wireless device is interfering with your SCS system. Try to identify the other system and contact SCS for a change of frequency for your SCS system.

## 6 Wireless interference

The SCS systems works with ISM band, 433 MHz. Those are also commonly used by other devices for home use, such as; wireless alarm systems, door openers, wireless power switches, weather stations, etc.

SCS cannot guarantee that there won't be interference with other devices, but it is not very likely since the SCS systems sends at relatively low power and short range.

SCS can't be held responsible for this type of interference and possible strange behavior of surrounding wireless systems. It is the owner's responsibility to test and ensure that safe operation can be done.

If you notice strange behavior of your SCS system or your surrounding wireless devices, please contact SCS with all possible details of the system. A change of frequency on your SCS system might be necessary.