

Catalogue

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Installation of transmitter

A. Install the battery

B. Install the antenna

C. Install the receiver and servo

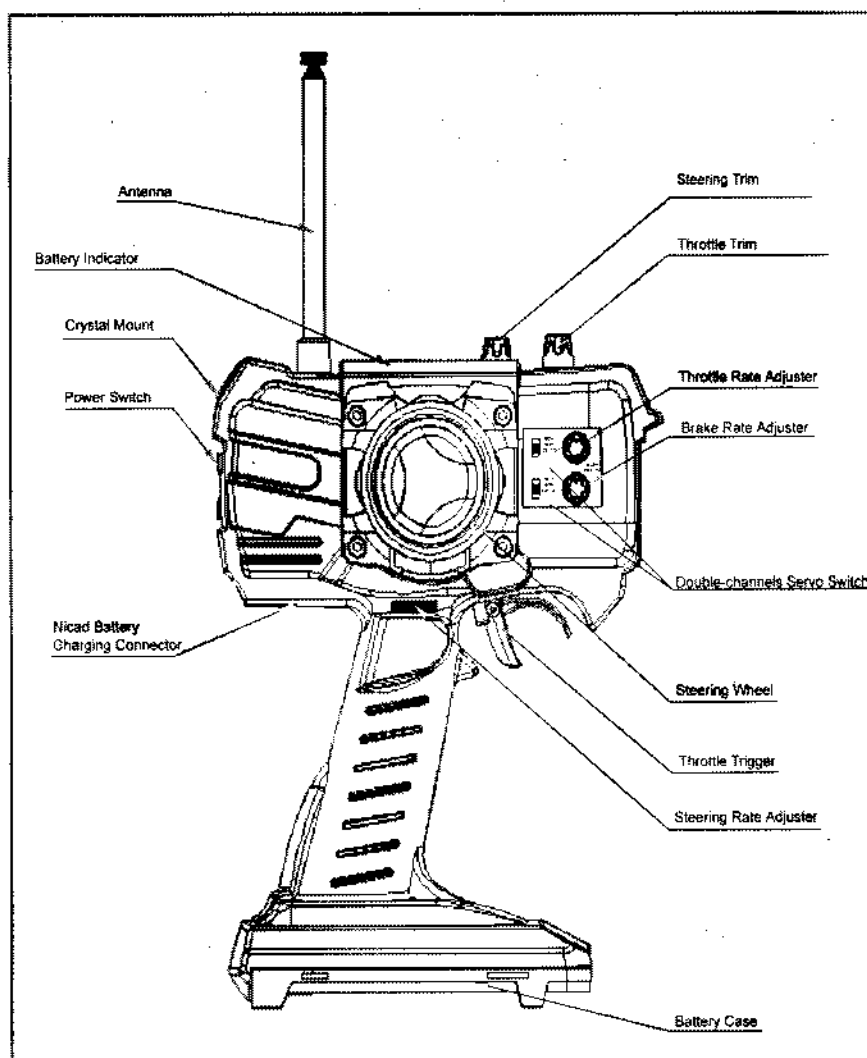
D. Change the direction adjusting wheel position

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1. Whole Model Introduction Diagram



Welcome to use SMARTECH series. With high quality and advanced technology, 30133 product will make your model optimal performance.

2. Character and Function

FM double-channels R/C system

Double-channels servo front&rear switch

Three battery indicator lights

Steering rate adjuster

Steering trim

Throttle rate adjuster

Brake rate adjuster

Throttle trim

Nicad battery charged interface

Steering adjusting wheel position can be transposed into left hand and right hand expediently.

(1) Steering wheel

The steering wheel can be rotated 35 degree from left and right. (See picture 1)

(2) Throttle trigger

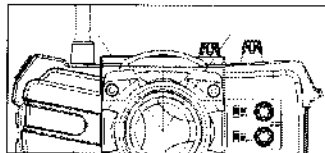
Throttle trigger can move 20 degrees forwards and backwards. (See picture 2)

(3) Servo reverse

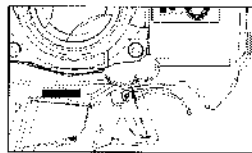
The servo can reversely revolve with its reversed switch.

The servo can revolve clockwise when the switch is on the 'NOR' position.

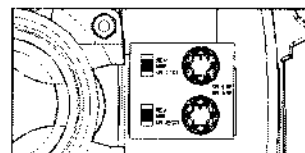
The servo can contrarotate when the switch is on the 'REV' position. (See picture 3)



Picture 1



Picture 2



Picture 3

(4) Steering trim

Rotating the left button on the top can obtain neutral position of the steering servo.

(See picture 4)

(5) Throttle trim

Rotating the right button on the top can obtain neutral position of the throttle servo.

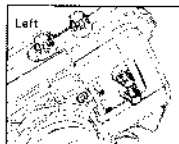
(See picture 5)

(6) Steering rate adjuster

The steering servo routing can be adjusted between its 30% -100% approximately.

Adjusting knob can rotate 300 degrees.

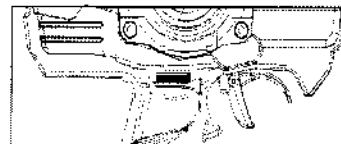
The routing of the potentiometer will increase when revolving right and will decrease when revolving left. (See picture 6)



Picture 4



Picture 5



Picture 6

(7) Throttle rate adjustment

The throttle servo routing can be adjusted between its 30% and 100%.

Adjusting knob can rotate 300 degrees.

When revolving clockwise the routing of the knob will increase.
The routing will decrease while contrarotating. (See picture 7)

(8) Brake rate adjustment

The throttle brake servo's routing can be adjusted between its 30% and 100%.

Adjusting knob can rotate 300 degrees.

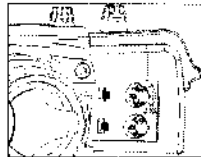
When revolving clockwise the routing of the knob will increase.

The routing will decrease while contrarotating. (See picture 8)

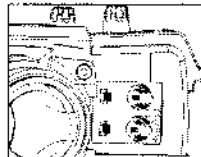
(9) Charging connector

Notice: You can charge only when the power is turned off. Slide the switch downwards to turn off the power. The charger can only charge to the chargerable batteries. Using other type of batteries will damage the equipment or be dangerous to the person. (See picture 9)

Never charge to the unchargerable batteries.



Picture 7



Picture 8



Picture 9

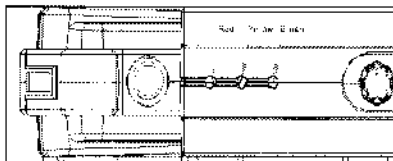
(10) Power indicator lights

You need to change or charge the batteries when the LED only shows yellow and red.

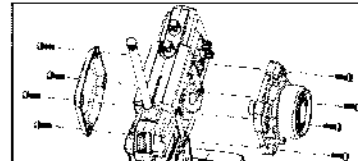
Never operate the batteries when the LED only shows red since the electricity is very weak when the yellow and green lights isn't lightened. (See picture 10)

(11) Transpose wheel direction

You can change steering wheel position if you want to operate by your left hand. (See picture 11)



Picture 10

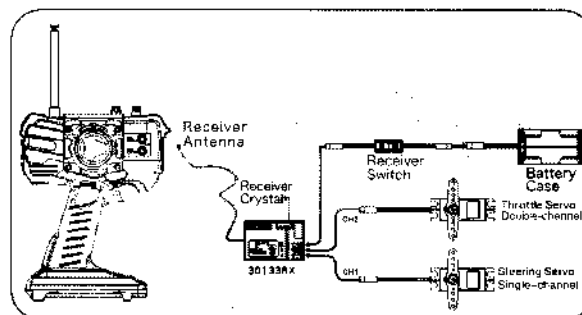


Picture 11

3. System Configuration

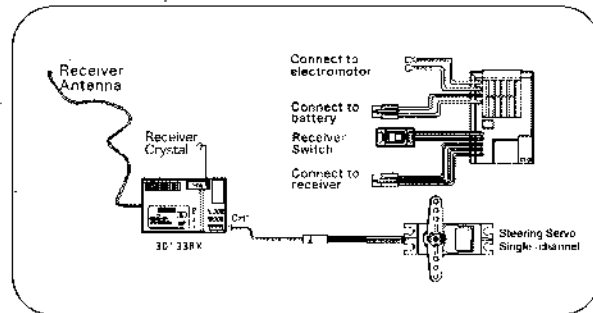
Configure and connect the system by following figures.

(1) Tank vehicle configuration(BEC function) (See picture 12)



Picture 12

(2) Electrical vehicle configuration with electron speed adjuster (See picture 13)



Picture 13

4. Installing Operation

To avoid unnecessary lose, please read following instruction carefully before installing.

a. Install batteries

You need 8 alkaline batteries or Nicad batteries.

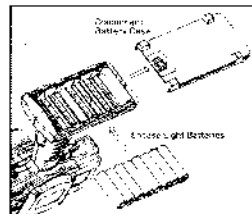
1. Open the battery cover by the picture.
2. Fix on 8 batteries and take care to the polarity.
3. Push down the battery cover to close it.

If you use Nicad batteries, please use SMARTECH intelligent charger (NO.40108) to charger for 1-5 hours. (See picture 14)

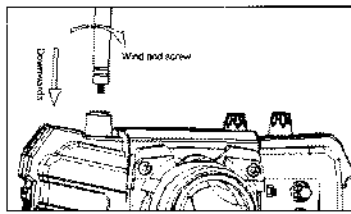
b. Antenna installation

Install the antenna by the picture and screw it tightly.

Make sure you have installed the antenna correctly and pulled to the longest position before using. Or the controlling distance will be affected and your model will be damaged. (See picture 15)



Picture 14



Picture 15

c. Install the receiver and servo

30133RX Receiver

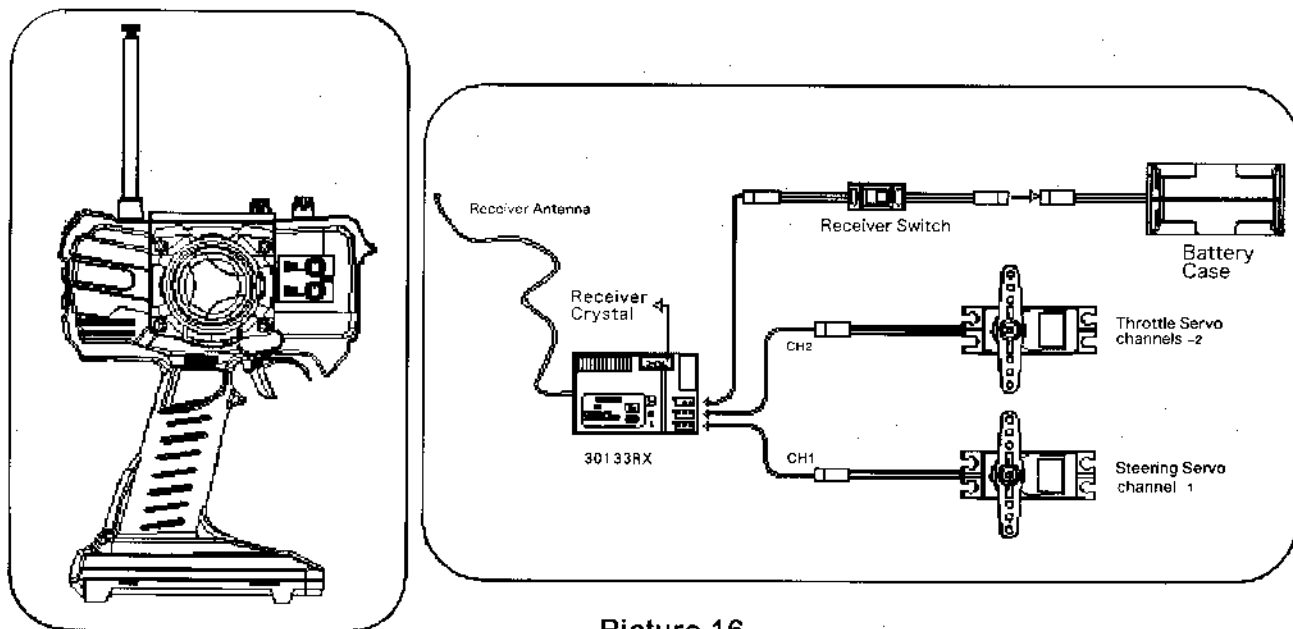
Without Battery Eliminator Circuitry (BEC) system, the receiver only need 4 dry cells and 5 Nicad piles (6V). Too high voltage will damage the receiver and servo.

With Battery Eliminator Circuitry (BEC) system, the circuit have voltage regulators. You can use 4 dry cells or 4-7 Nicad piles (4.8-8.4V) to charge for the receiver. When the receiver has voltage regulators it will charge for the servo. Too high voltage will damage the receiver and servo.

Avoid using one power for receiver, motor and engine at the same time.

- (1) Push the connecting switch on OFF position.
- (2) Insert the switch connector into the receiver BATT groove.

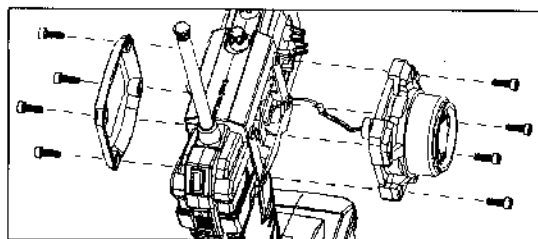
- (3) Plug throttle servo connector into CH2 channel.
- (4) Plug direction servo into CH1 channel.
- (5) Install 4 AA alkaline battery into battery case (or BEC system : 4-7 CELL Nicad piles; without BEC system: 5 CELL Nicad piles) and connect the port with the receiver switch interface.
- (6) Check whether the receiver crystal suit with transmitter crystal.
- (7) Turn on the transmitter.
- (8) Put servo switch on "ON" position. (See picture 16)



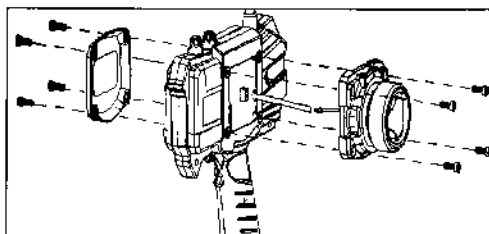
Picture 16

d. Transposing direction and steering wheel position

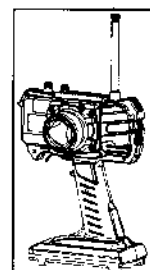
- (1). Tweak 4 inner hexagon screws on steering wheel fixer.
- (2). Take out steering wheel slightly and plug out the pin by picture. (See picture 17)
- (3). Tweak 4 inner hexagon screws on rear fixing board.
- (4). Insert adjusting wheel pin into CH1 socket and fix the screw. (See picture 18)
- (5). Fix the rear board on the steering wheel position. (See picture 19)



Picture 17



Picture 18



Picture 19

5. Technical spec

Transmitter 30133TX	Output power	<100mw
	Frequency	27MHz
	Modulation	FM
	Power supply	12V
	Current drain	<250mA
	Dimension	178x95x230mm
	Weight (Battery not included)	390g
Receiver 30133RX	Receiver sensitivity	<2uV
	Channel selectivity	50dB
	Intermediate frequency	455KHz
	Power (with BEC system)	DC (6V) or (4-7 Nicad)
	Power (without BEC system)	DC (6V) or (5 Nicad)
	Current drain	<30mA
	Dimension	53x34x26mm
	Weight	26g
Servo 30102	Torque	3.0kg.cm
	Speed (6V)	0.34 sec/60°
	Dimension	56x20.2x42.5mm
	Weight	42g

6. Packing accessories

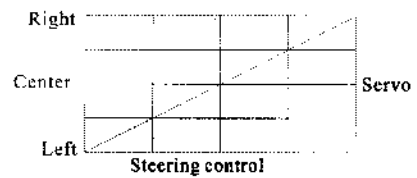
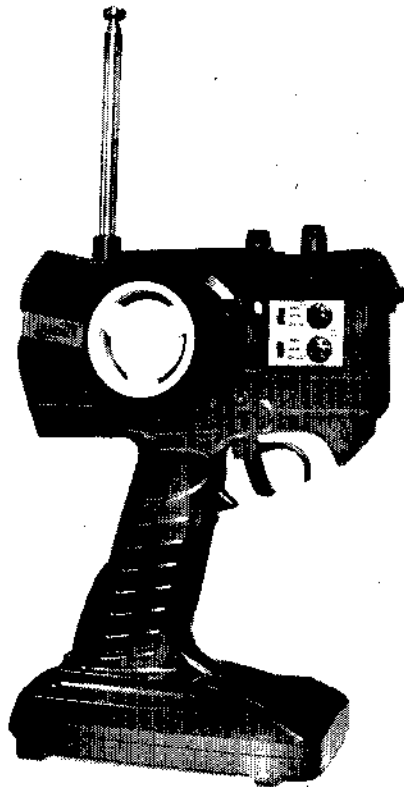
Transmitter	30133TX 27MHz	1PCS
Receiver	30133RX 27MHz(with BEC system)	1PCS
Servo	30102	2PCS
Switch case		1 set
Servo rocker		4PCS
Receiver battery case		1PCS

7. Product service and guarantee

Our product have tested strictly before shipment. If the product is damaged not by manmade actor please contact with our dealer. The customs will take responsibility for the damage caused by your error operation. If you have any question while installing and debugging please contact with our dealer. We will warmly service for you. We will constantly improve and upgrade SMARTECH product without prior notice. Finally, we hope that you can enjoy yourselves with our R/C products.

30133TX

User's Manual



Digital Proportional Double-channels R/C System

