

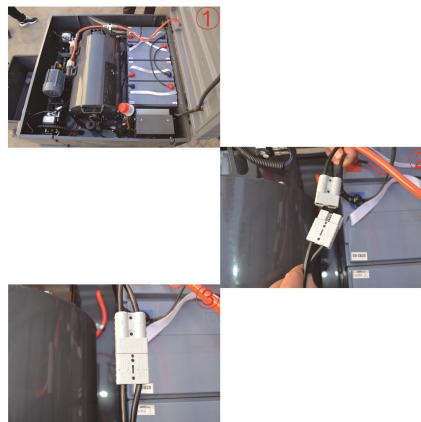
# Instruction Manual



Welcome to use the electric sweeper produced by our company. Our company specializes in research and development and production of electric driving sweeper. The equipment uses large capacity maintenance-free batteries, integrates advanced technology at home and abroad, integrates sweeping and suction, has a strong sweeping capacity, safety and noise-free, no secondary pollution. Simple operation, long continuous operation time and simple maintenance. It can be widely used in factory workshop, residential property, airport station and other areas. Please read the instructions carefully before use.



## Power-on tips for unloading

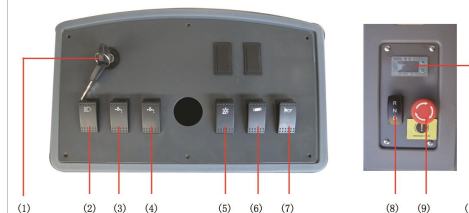


When the device is unloaded from the tray, please connect the battery power at the first time, convenient to start the vehicle at any time.



## Operation instructions

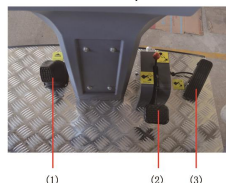
### I. Description of operation button



#### Description of operation button

- |                                |                     |                           |
|--------------------------------|---------------------|---------------------------|
| 1. Key switch                  | 2. Headlight button | 3. Front Sprinkler Button |
| 4. Back Sprinkler switch       | 5. Sweeper switch   | 6. Dust switch            |
| 7. Horn switch                 | 8. Gearshift        | 9. Emergency Stop Button  |
| 10. Voltage and electric meter |                     |                           |

### II. Pedal Description



Pedal Description  
 1. Lifting pedal  
 2. Brake pedal  
 3. Accelerator pedal

Upgrading the role of leather pedal, when cleaning encountered large particles and more leaves, will upgrade the pedal to the bottom, so that items can enter the main brushing bin, and then clean smoothly.

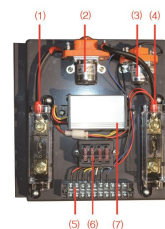
### III. Charging instructions



Battery Charger Plug

The device uses a car charger, the end of the cleaning operation, the charger can be plugged into the wire. See The chargers manual for details.

### IV. Circuit Board Description



#### Circuit Board Description

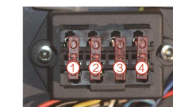
- |                     |                   |                            |
|---------------------|-------------------|----------------------------|
| 1. Master fuse      | 2. Main contactor | 3. Sweeper contactor       |
| 4. Drive fuse       | 5. Wiring row     | 6. Low-voltage fuse holder |
| 7. 48-12V converter |                   |                            |

Note: 5 Wiring Row 1 ~ 10 pin explanation



- |                    |                    |        |
|--------------------|--------------------|--------|
| ① 48V+             | ② Negative pole    | ③ 12V+ |
| ④ Headlamps        | ⑤ Trumpets         |        |
| ⑥ Water sprinkling | ⑦ Sweeping control |        |

Note: Fuse holder No. 6(from left to right)



- |                       |             |            |
|-----------------------|-------------|------------|
| ① The whole car 12 v+ | ② Headlamps | ③ Trumpets |
| ④ Water sprinkling    |             |            |

### V. Dismantling of garbage bins



#### Dismantling of garbage bins

If you need to clean up the garbage in the garbage bin, first pull up the buckle to separate the garbage bin from the car body, then open the garbage bin and dump the garbage.



## Maintenance and Removal of Fragile Parts



### I. Removal and adjustment of main brush



Main Brush Adjusting Screw

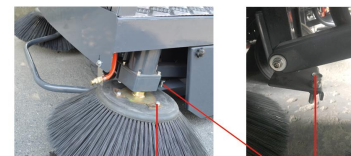
#### Remove the main brush:

When the main brush needs to be replaced, first open the door on the left side of the car, unscrew the two black bolts on the connecting board of the main brush, remove the connecting board, then unscrew the three nuts on the baffle of the main brush bin, remove the baffle of the main brush bin and drag out the main brush. Install in reverse order, first install the main brush, then install the main brush silo baffle, and then install the connecting plate. **Note: When installing the main brush, the brush arrow should be directed to the front of the car.**

#### Main brush adjustment.

After cleaning for a period of time, the main brush will be worn. It is necessary to adjust the main brush downwards, directly adjust the top bolt of the main brush, clockwise adjust the screw, so that the contact distance between the main brush and the ground is 3-4 mm.

### II. Removal and adjustment of side brushes



Fixing screw for side brush

Side brush adjusting screw

#### Fixing screw for side brush

When need to replace side brush, directly side brush plate on 3 screws screw loose, rotating brush plate can side brush disassembly, and then install a new brush plate can be.

#### Side brush adjusting screw

After cleaning for a period of time, the bristles will have a certain wear and tear, the side brush should be connected to the screw under the bracket down adjustment, is the brush hair contact with the ground 4 ~ 5 mm. There is an adjusting screw under each side brush plate.

### III. Dismantling and Cleaning of Filters



Fixing screw

After using for a period of time, the filter will have a certain blockage, need to clean the filter in time, as shown on the left, the Shell 4 fixed screws removed, see on the right, a circle of 8 fixed screws removed after pulling out the filter, use High pressure gas to clean the filter and then install it.



## Analysis of Common Faults

#### 1.No cleaning

The main control parts of cleaning operation are button switch and two 50A contactors. If the motor of cleaning operation is not working, first check whether the back connector of button switch is connected properly. If the button is not broken, it may be damaged by 50A contactor. Among them, one contactor in the middle of the circuit board controls the main brush motor and two fans, and the right one controls four side brush motors. The left two motors and the right two motors are respectively protected by fuse holders (see the circuit board description for details). In normal operation, if which motor does not work alone, it is necessary to check the motor, if there is a problem, replace it directly. If the side brushing motor works two times on one side and the other half does not work, then check the side brushing fuse and replace it.

#### 2.No driving

The main control elements of the driving system are controller, accelerator, gear, walking motor, sprocket, chain and walking fuse. If there is no walking, check the electrical components. If any of the components is damaged or not in good contact, it will cause no walking. Replace the damaged parts

#### 3. No dust

The main components of the dust vibration system are the dust-vibration button and the dust-vibration motor. If there is no vibration, check the vibration switch and the vibration motor. If it is damaged, replace it.

#### 4.No sprinkling

The main components of the sprinkler system are two pumps, one water tank, one solenoid valve and two sprinkler buttons. The middle part is connected by a water pipe. If there is no water sprinkler, first check whether the water tank has water, the pump does not work, if the electrical components are working properly, then check whether the water pipe, pump, nozzle, solenoid valve is blocked, if there is blockage, clean up.

#### 5.Cleaning is not clean

The main electrical components of the cleaning system include one main brush motor, four side brush motors and two fan motors. If a single electrical unit does not work, the cleaning will not be clean. It is enough to check and replace the damaged electrical appliances. If the front and side skins of the main brush warehouse are damaged and fall off, it will also cause unclean cleaning. Check and replace

#### 6.No charge

Check whether the charging plug is plugged in properly. Check whether the battery connection is normal. Or consult the charger instructions.

#### 7.The main brush and edge brush cannot be upgraded.

The main brush is lifted off the ground mainly by an electric push rod. The

edge brush lifting is mainly connected by an electric push rod and a wire rope to lift the edge brush off the ground. If the main brush or side brush cannot leave the ground when stopping working, check the wire rope and electric push rod, and replace it if it is damaged.



## Safety precautions

1. It is strictly forbidden for non-professionals to operate this sweeper.
2. It is strictly forbidden to sweep silky and ribbon objects in order to avoid winding the brush.
3. It is strictly forbidden to drive this sweeper after drinking.
4. Strictly prohibit working on rainy days
5. Deep discharge is strictly prohibited. When the voltage is below 45V, please charge it in time.
6. Please strictly abide by the Road Traffic Safety Law and use this sweeper.