

ISUZU



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CEEC TRUCKS INDUSTRY CO., LIMITED



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Road Sweeper Truck



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OWNER'S MANUAL



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Preface

Thank you for purchasing CEEC TRUCKS products. For better using your ISUZU Road Sweeper Truck, get the best operating performance, we strongly suggest that before the operation process you should read this manual instructions carefully, and to manipulate the program handily.

The manual detailed describes the performance of road sweeper truck, structure, usage, precautions and maintenance of such knowledge. While showing details of the truck, both pictures and description will together help you get better understanding of how to use truck. Before the operation, the skilled operator should carefully read the contents of the manual.

After master the truck performance characteristics, methods of operation and precautions, then could start to operate this street sweeping truck. In order to ensure the staff turnover after the operation, and properly use of the truck. This manual book must be properly kept, shall not be lost and damage.

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Chapter 1. General Description

*CEEC TRUCKS Road Sweeper Truck based on type II ISUZU 4*2 Left Hand Drive chassis, capacity for Dust tank can be up to 4000Liters and capacity for Water tank can be up to 1000Liters, which also installed with best performed Chinese brand JMC diesel auxiliary engine. Sweeping Device installed at middle of truck with 4 brushes for cleaner sweeping working; Vacuum Suction Device installed rear of truck for dust suction and avoid second pollution. The Auxiliary engine and Fan use centrifugal auto clutch connection, which can ensure auxiliary engine no-loading starting. The sweeping device can be retract automatically when blocked, which efficiently protect the device from damage while operation.*

The vehicle designed to fully rely on the advantages of the original of ISUZU brand chassis, fully consider the product's convenience and reliability, also the chassis ISUZU technology features. The road sweeper has advantage of sweeping widely and suction efficiently, and maintenance for whole truck can be easily. The tank material is international standard stainless steel, which can effective to avoid rusting. Arrow light installed at rear of tank to make sure working safety.

The ISUZU 4x2 Road Sweeper Truck sweeping speed faster and can efficiently avoid raising dust. The Truck is widely used for city road, high-way, airport road, seaport road, bridge, square, community, factory, etc. Therefore, the vehicle is an ideal Road Sweeper Truck mainly for road cleaning.



(Preview for your ISUZU Fuel Tanker Trucks)



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Chapter 2, Main Technical Data

i ,Road Sweeper Truck technical parameter

Items		5CBM ISUZU Road Sweeper Truck
S I Z E	Outer Dimension (LxWxH) (mm)	5900x2000x2500
	Wheelbase (mm)	3360
Kerb Weight (kg)		4950
G E A R	Gearbox brand	ISUZU MSB
	Model	5-shift gearbox
	Type	Manual
Cab capacity (includes driver)		2
E N G I N	Brand	ISUZU
	Model	4KH1-TCG40
	Type	Six cylinder inline, four stroke, water-cool, turbocharged Inter-cooling, diesel
	Rating Power (kW/HP)	88/120

Note: 1.The vehicle height includes Rear Climbing Ladder.

2. We keep the right to revise the parameters on the list above.

Sweeper system basic parameter list

Items		Parameter
Water Tanker	Capacity (Liters)	4000
	Material	Stainless Steel
Dust Tanker	Capacity (Liters)	1000
	Material	Stainless Steel
Auxiliary Engine	Model	ISUZU technology engine
	Specifications	Four stroke, water cooled, diesel engine
	Power	57KW
Sweeping System Parameter	Brush	Four brushes
	Maximum sweeping width	3 m
	Sweeping speed	3~20 km/h
	Maximum sweeping ability	60000 m ² /h



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ii ,Road sweeper trucks advanced features

This vehicle is a wet road sweeping vehicle retrofitted by adding a top mounted dedicated sweeping device powered by ISUZU technology auxiliary engine to the ISUZU NKR chassis. This CEEC5070TSL road sweeper truck has a simple and proper structure with four brushes in the middle and a suction port at the back part of the vehicle. The efficient suction system makes low noises when the vehicle is working. The whole vehicle is stable in performance.

- 1. This vehicle is equipped with advanced video monitors. Camera is installed at the end and the back part of the vehicle to offer the operator surveillance image about the sweeping condition.*
 - 2. At the back part of this street cleaning truck there is an indicating arrow to make sure the road sweeper truck can work safely.*
 - 3. With individual controls for the water sprayed through the brush disks or the suction pipe, this vehicle is easy to operate.*
 - 4. High quality automatic centrifugal clutch is adopted in this product to start the auxiliary engine without load. The clutch is in a semi-open structure which makes it easy to check to what degree the wear plate is worn. Just unscrewing one gland bolt you can take out the core of the clutch to replace the wear plate.*
 - 5. The hydraulic valve group of our road sweeper truck is composed of thread cartridge valves introduced from the American HF (Hydra Force) company. The thread cartridge valves feature compact structure, light weight, powerful functions, high reliability and easy maintenance. They are popular hydraulic valves for vehicles in Europe and America. The hydraulic valve group contains an electric-hydraulic proportional speed regulating valve to control the revolving speed of the sweeping brushes. The operator can achieve stepless regulation to the revolving speed of the sweeping brushes by adjusting the electronic control rotary knob. Besides, customers can also choose to install the sandwich valve group produced by Japanese Yuken according to the practical need.*
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- 6. The driving motors of the sweeping brushes and the brush disks are high-quality cycloidal motors which have high transmission efficiency and long service life.*
 - 7. The electronic control system of this road sweeper truck is controlled by single chip microcomputer. The highly centralized control box is quite intelligent with low failure rate and only a few control switches. With such an electronic control system, the operator can control all the operations of the vehicle in the cab.*
 - 8. When dumping garbage, the garbage bin can incline 60° at most. Since the water tank is mounted under the garbage bin, the bottom board of the garbage bin has already inclined 12° from the vehicle body. This makes the garbage dumping more easily and thoroughly.*
 - 9. Various sorts of optional equipment are available. Customers can decide to install rolling brushes to the suction port. Rear mounted dirty water suction pipe or snow plow can be added to this road sweeper truck to make it multifunctional.*



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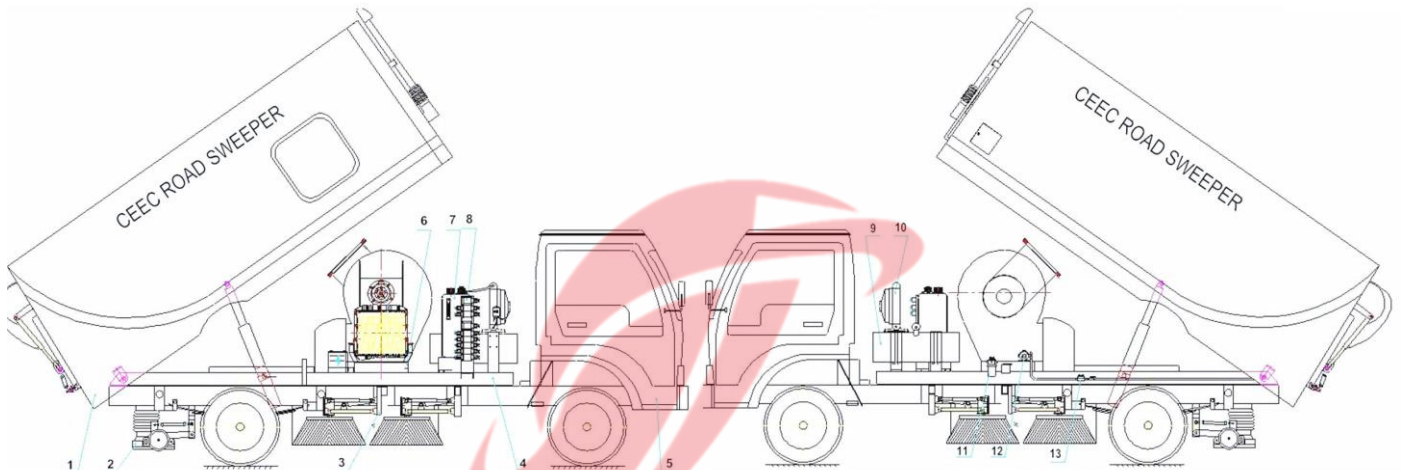
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Chapter 3, Road Sweeper Truck Structure Components

i ,Road Sweeper Truck Structure Components

Overview for ISUZU Road Sweeper truck technical drawing:



- | | |
|--------------------------------|---|
| 1. Dust Tank Assembly | 2. Dust Vacuum Suction Device |
| 3. 4 units brushes Assembly | 4. ISUZU Tech Auxiliary Engine Assembly |
| 5. ISUZU NKR chassis | 6. Power Assembly |
| 7. Hydraulic Oil Tank Assembly | 8. Hydraulic Pipeline and Valve |
| 9. Diesel Fuel tank | 10. Radiator Assembly |
| 11. Auxiliary Engine Oil Pump | 12. Water Spray Pump |
| 13. Solenoid Valve | |

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Above drawing show detailed parts for this ISUZU road sweeper truck, which use original ISUZU type 2 chassis, with white color single row cabin, wheelbase 3360mm, 4KH1-TCG40 engine with 120PS, 7.00-16 tire, detailed picture for chassis as below:

Pictures show customer required chassis for record





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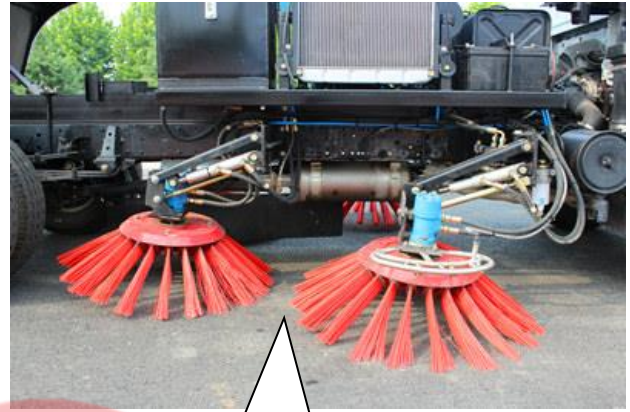
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Sweeping Brush Assembly: Totally four units. Water spraying nozzle above the brushes



Left Side View (Driver's Side)
2 brushes



Right Side View
2 brushes

Water Spraying Nozzles



Left Side view of the Truck: equipped with Powerful fan, imported PLC modules, both chassis engine and auxiliary use same fuel tank.

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Powerful Fan

Fuel Tank (Both ISUZU chassis engine and Auxiliary engine use same tank)





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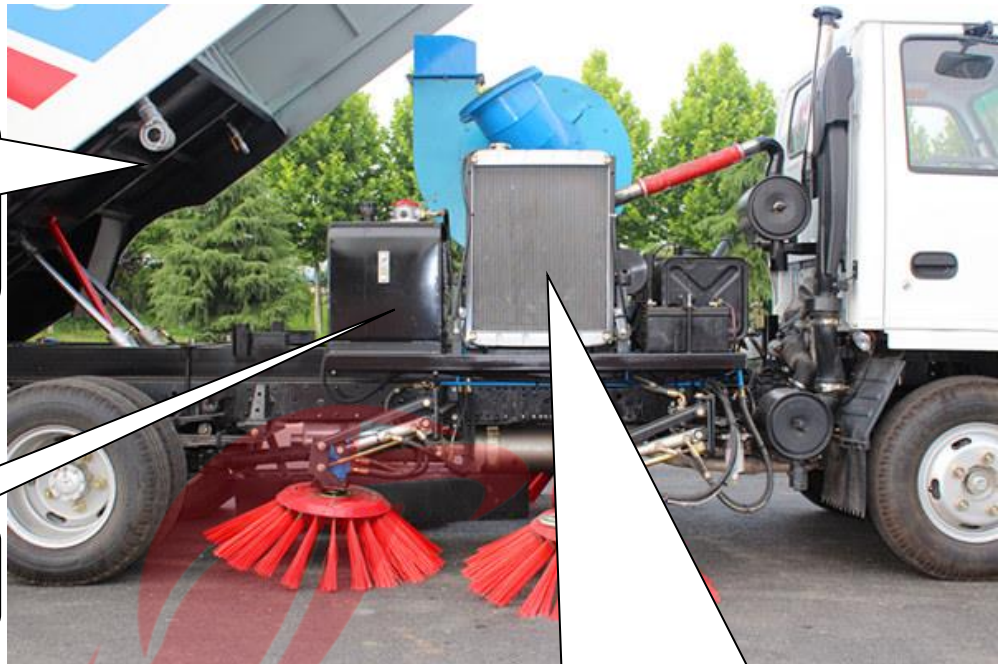
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Right Side view of the Truck: equipped with Radiator and Hydraulic Oil Tank. Water Inlet Valve

Water Inlet Valve
 Water can pump into the 1000L water tank

Hydraulic Oil Tank with liquid indicator



Radiator
 Make sure the Cooling Liquid is enough before truck working

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Middle view of the Truck: equipped with ISUZU technology auxiliary engine.

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ISUZU technology Auxiliary Engine





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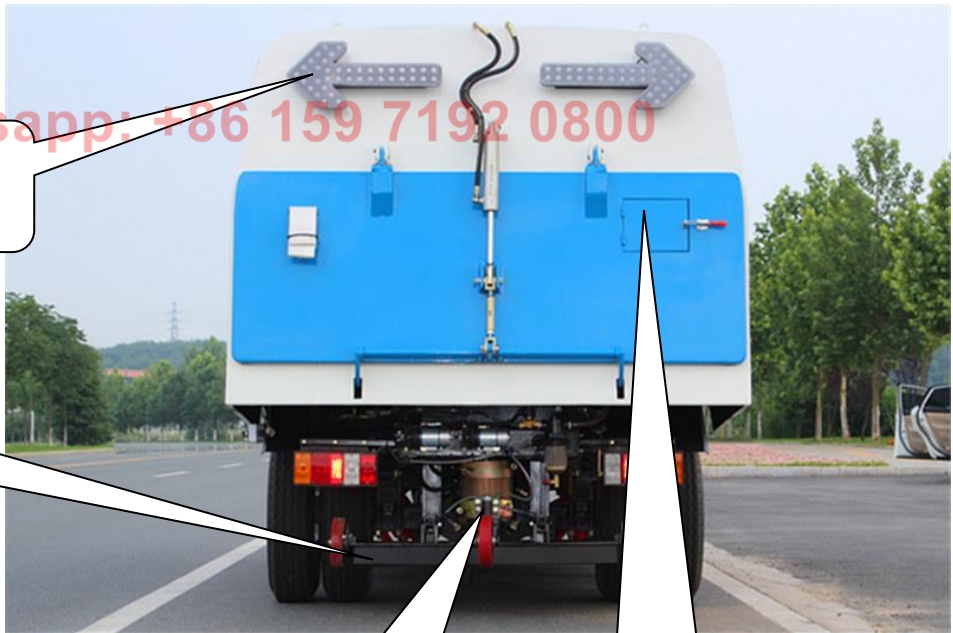
When lifting the tank, make sure the **Red Safety Support** in right position

Overflow valve
 When pumping water into the water tank, this valve release air to lower inside pressure



Rear view of the Truck: equipped with ISUZU technology auxiliary engine.

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Arrow Light (2 sets)
 For safety while working

Dust Vacuum Suction Device

Water Discharging Valve

View Window
 To see inside capacity

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Control System of the road sweeper truck: Main control box in Cabin & rear control box.



Main Control Box
 1. Control the whole Sweeping operation
 2. English Version Panel for guidance

Rear Control Box
 1. Control the whole body up & down
 2. Control the rear door open & close
 3. English Version Panel for guidance



Top of the road sweeper truck: on top of the body with one Air-vent. **Whatsapp: +86 159 7192 0800**



On top of the road sweeper truck body installed one Air-Vent



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Chapter 6, Road Sweeper Truck Working Principles

The operator should fully understand Whole Structure and Working Principle for ISUZU Road Sweeper Truck before any operation. Only trained person can operate this vehicle properly and to prevent unnecessary accidents and equipment damage.

i ,How are the sweeper trucks working?

The ISUZU Road Sweeper Truck makes use of the ISUZU technology auxiliary engine to get the power, and the engine drive the sweeping system, fans and vacuum suction plate working. Operation the main control box inside the cabin, and adjust the truck speed to sweeping faster and slowly. After sweeping working, cleaning the dust tank, add enough water into water tank, and ready for next time operation.

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ii ,What is the main component for truck?

The road sweeper truck is refitted based on the ISUZU 4x2 LHD chassis. The refit part includes road sweeping assembly, actuator device and operation system.

- *Road sweeping assembly: One stainless steel dust tank & one stainless steel water tank. 4 units brushes, vacuum suction plate and water spraying system.*
- *Actuator device: includes Isuzu technology auxiliary engine, drive line, etc., which can pass the power to the pump.*
- *Operation system: helps come to all special functions' convert.*



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iii, How to operate fuel tanker trucks?. (Very Important)

Main control box in cabin (English version plate):



1. ISUZU Technology Auxiliary Engine **Revolving Speed** panel: Recommended working Revolving Speed is 1800r/min~2000r/min, which based on road condition

ISUZU technology Auxiliary Engine





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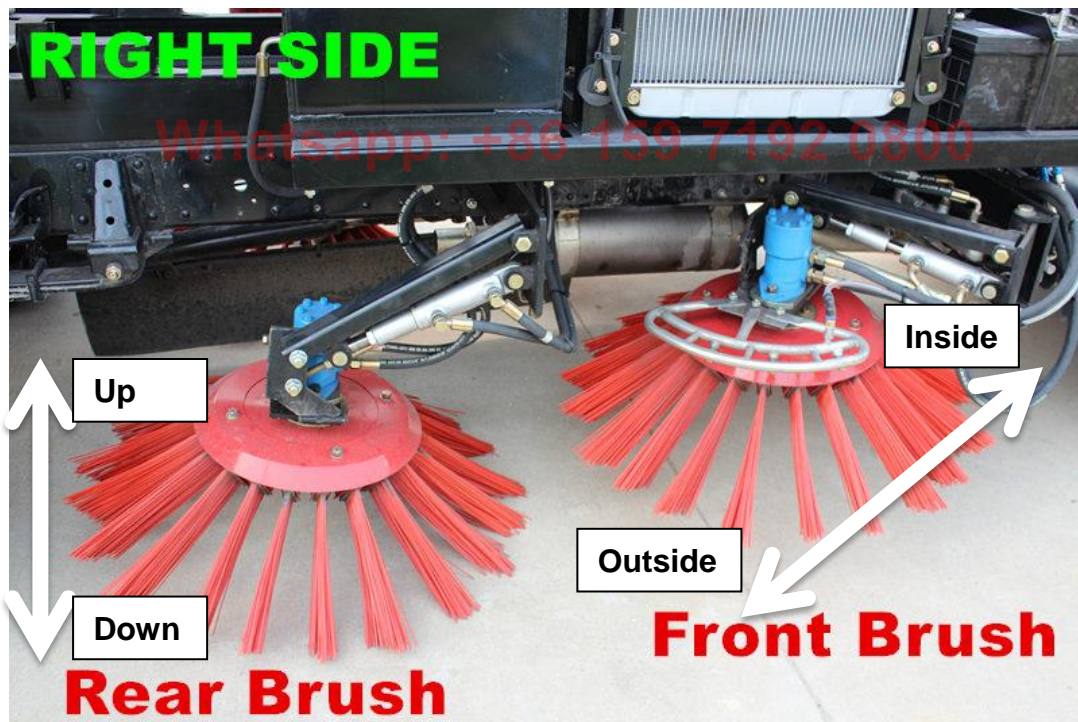
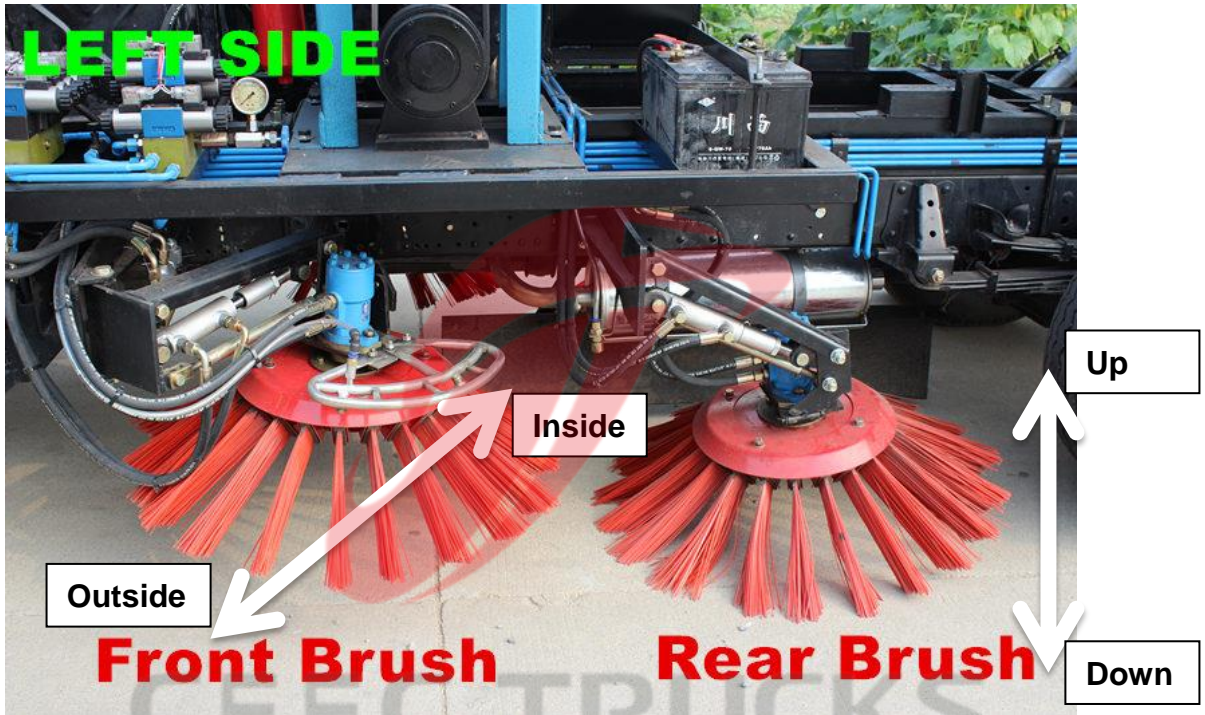
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2. Button #2 control **Front Brush** for left & right side:

Operation one: Turn Up, the **LEFT SIDE** Front Brush move **inside**;
 Turn Down, the **LEFT SIDE** Front Brush move **outside**.

Operation two: Turn Left, the **RIGHT SIDE** Front Brush move **inside**;
 Turn Right, the **RIGHT SIDE** Front Brush move **outside**.





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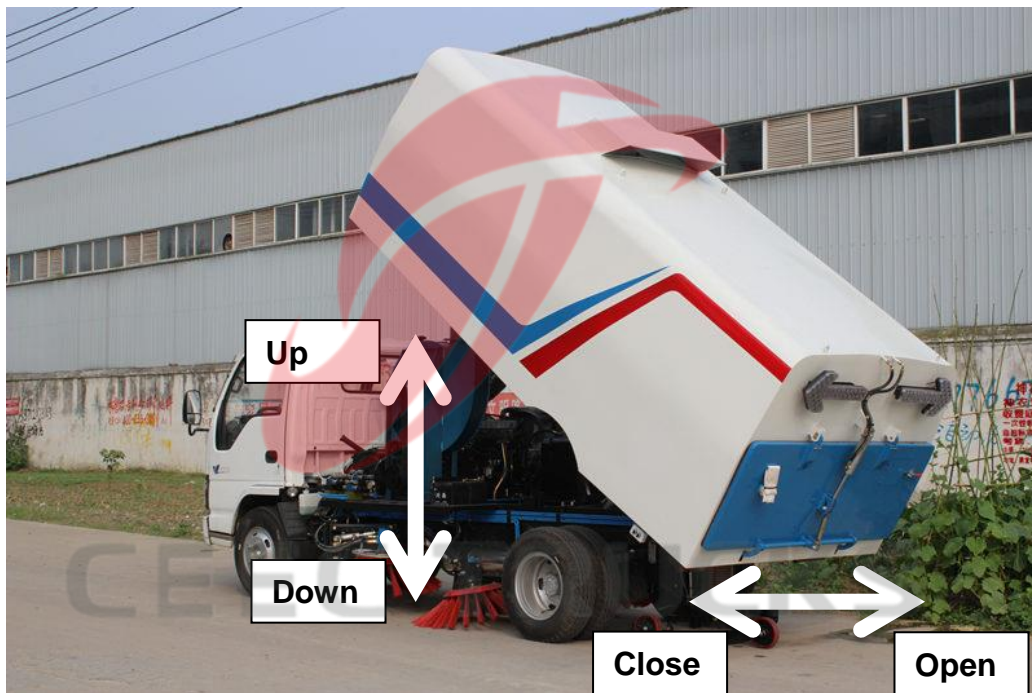
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3. Button #3 **control Rear** Brush for left & right side:

Operation one: Turn Up, the **LEFT SIDE** Rear Brush move **up**;
 Turn Down, the **LEFT SIDE** Rear Brush move **down**.

Operation two: Turn Left, the **RIGHT SIDE** Rear Brush move **up**;
 Turn Right, the **RIGHT SIDE** Rear Brush move **down**.

4. Button #4 control **Garbage Box** Up & Down; **Rear Door** Close & Open



5. Button #5 control **Sweeping Speed**: +86 159 7192 0800

Turn Left, the **SWEEPING SPEED** Higher;
 Turn Right, the **SWEEPING SPEED** Lower.





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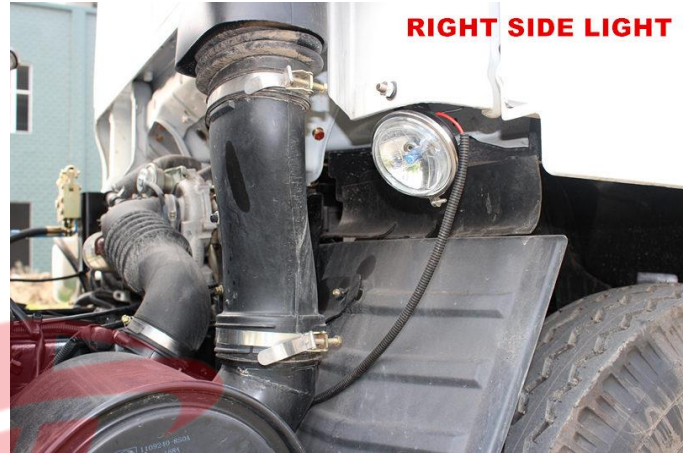
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6. Button #6 control **Side Light**

Turn Left, the **LEFT SIDE** light on;

Turn Right, the **RIGHT SIDE** light on.



7. Temperature Instrument Panel: When temperature is over 100 °C, please stop working.

8. Button #8 control **Side Brush Spraying**





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9. Button #9 control **Vacuum Suction Device Spraying**



Vacuum Suction Device is Spraying water

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10. Button #10 control all **Hydraulic System**

11. Button #11 control **Whole Auxiliary engine power**

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12. Button #12 & Button # 13 control **Rear Arrow Lights**



Turn on LEFT button, the **LEFT Arrow Light ON**

Turn on RIGHT Button, the **RIGHT Arrow Light ON**



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13. Button #14 control **Whole Electricity**



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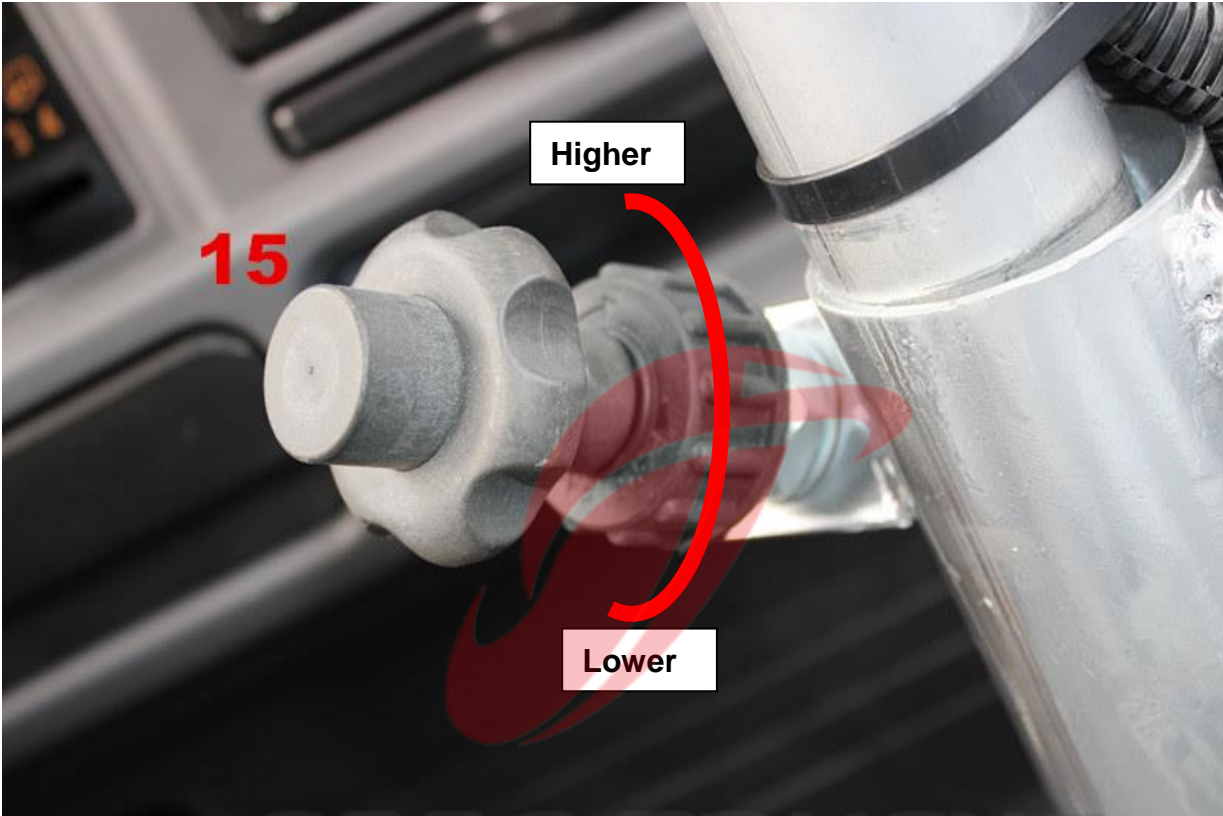
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15. Button #15 control **Accelerator Handle Cable**

Turn Left, the revolving speed is higher

Turn Right, the revolving speed is lower



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Chapter 7, Troubleshooting

After carefully reading the above information, you must be well known how to use the ISUZU Fuel Tanker Truck; below show some important parts to help solve problems.

Trouble	Analysis	Troubleshooting
Hydraulic System Leakage	<ol style="list-style-type: none"> Pipeline joint loose Seal ring or compound gasket damaged Oil tank and pipeline welding trouble 	<ol style="list-style-type: none"> Fastening pipeline joint Replace seal ring or compound gasket Cleaning and welding again
Hydraulic System Working Pressure is Lower or no Pressure	<ol style="list-style-type: none"> Overflow valve blocked or adjust lower pressure Electric system poor contact or air switch trip Hydraulic pump damaged or excessive inside drain 	<ol style="list-style-type: none"> Adjust the overflow valve and reset the pressure to 14Mpa Carefully exam all electric circuit, connect the air switch Replace hydraulic pump or sealing element
High Temperature for Hydraulic System	<ol style="list-style-type: none"> Improper setting for overflow valve Hydraulic pipeline blocked 	<ol style="list-style-type: none"> Resetting system pressure to 14Mpa Carefully exam all pipeline and eliminate blocking problem
All Hydraulic Operation invalidity	<ol style="list-style-type: none"> Electric control box disconnect, no power on hydraulic system Overflow valve does not work Hydraulic pump damage or transfer belt breakage 	<ol style="list-style-type: none"> Carefully exam whole electric circuit Checking and resetting overflow valve Replace hydraulic pump or transfer belt
Collision and no proper retract problem for garbage tank	<ol style="list-style-type: none"> Garbage tank tilting device counterbalance valve improper adjusting Overflow pressure improper 	<ol style="list-style-type: none"> Adjusting the counterbalance valve pressure, and make sure the tank drop down safety Adjust overflow pressure to 14Mpa
Sweeping plate rotating speed slowly or no working	<ol style="list-style-type: none"> Working temperature too low, hydraulic oil viscosity higher, which make higher resistance Sweeping brush gears improper Hydraulic motor or hydraulic pump damaged 	<ol style="list-style-type: none"> Replace the hydraulic oil to recommend type Mobile #46 Hydraulic Oil (compression resistance & wear resisting) Adjust to proper gear Repair the hydraulic motor or hydraulic pump
Rear Sweeper cannot drop down properly	<ol style="list-style-type: none"> Sweeping plate idle Magnetic valve blocked, and electromagnetic coil damaged Hydraulic lock blocked 	<ol style="list-style-type: none"> Turn off the sweeping plate Replace or washing magnetic valve, replace the coil Washing or replace the hydraulic lock



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<p>Rear Sweeping plate drop down and suction device raising not proper position</p>	<ol style="list-style-type: none"> 1. Sweeping plate and suction device hydraulic cylinder leakage 2. Suction device wire rope too long or breakage 3. Magnetic exchange valve or double-way lock blocked and leakage 	<ol style="list-style-type: none"> 1. Replace the hydraulic cylinder 2. Adjust or replace suction device wire rope 3. Maintenance the magnetic exchange valve or double-way lock
<p>Hydraulic oil color changed or exist air bubble</p>	<ol style="list-style-type: none"> 1. Hydraulic pump suffered empty absorption, and air enter into joint, pipeline or oil pimp 2. Oil tank seals is leaking or water enter into tank during washing 3. Hydraulic oil filter blocked and cause insufficient oil supply 	<ol style="list-style-type: none"> 1. Carefully checking pipeline, eliminate air into problem 2. Carefully exam the sealing for tank, replace the seal ring. Replace the hydraulic oil if necessary 3. Cleaning or replace the filter
<p>Sweeping plate, Suction Device or Garbage bin tilting device not work</p>	<ol style="list-style-type: none"> 1. Magnetic exchange valve damage or electromagnetic coil poor connection 2. Magnetic exchange valve element does not work 3. 	<ol style="list-style-type: none"> 1. Carefully exam the magnetic exchange valve, replace it if necessary 2. Push the valve element to eliminate block, cleaning it if necessary 3.

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Chapter 7, Others for Attention

After carefully reading the above information, you must be well known how to use the ISUZU Road Sweeper Truck; below show some parts you need to pay attention while using the truck.

i ,Precautions for Use

- Please strictly follow the following owner manuals:
Road Sweeper Owner's Manual
- Carefully examination the road sweeper truck:
 1. Examine all parts, especially steering device, braking device, Suspension, tires and other joints, etc.
 2. Examine Braking System, maintenance if need any help.
 3. Examine the tire pressure.
 4. Examine all lights on the truck, including Head Light, Fog Light, Turning Light, Tail Light, Arrow Light.
 5. Examine the rear Anti-Static tape, replace it if not tough the ground
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- It is strictly forbidden to operate the Power Take Off (PTO) under the condition of the clutch not separation (Not step the clutch pedal). When release the clutch, you should slowly. The operation of the PTO must only on the condition of neutral for clutch.
- It is better to cleaning the dust tank and add enough water into the water tank.
- When operating all the Valves, it is not good to overexert, for overexert will influence the valve's service life.



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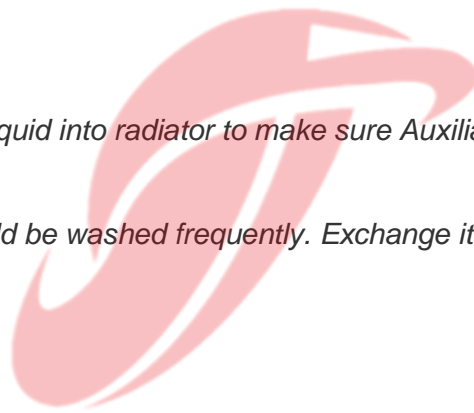
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ii ,Maintenance

- *The maintenance of the chassis including clutch and transmission gearbox should be properly.*
- *It should be checked all coupling and lubrication at fixed period to exclude the tight parts, and make sure all parts in good lubrication condition.*
- *When the brush wear, adjust the height of the brush plate, replace all brushes only if cannot use any more.*
- *Always add enough cooling liquid into radiator to make sure Auxiliary engine never be overheat.*
- *The strainer inside filter should be washed frequently. Exchange it if necessary.*



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