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POWERSTAR Back Loader Garbage Truck

User's Manual



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POWERSTAR TRUCKS INDUSTRY CO., LIMITED

http://www.isuzutruckscn.com/



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Preface

Thank you for purchasing POWERSTAR TRUCKS products. For better using your ISUZU garbage compactor truck, get the best operating performance, we strongly suggest that before the operation process you could read this manual instructions carefully, and to manipulate the program handily.

The manual detailed describes the performance of garbage compactor 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 garbage 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.

----POWERSTAR TRUCKS





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Chapter 1. General Description

POWERSTAR TRUCKS Garbage Compactor Truck based on type II ISUZU 4*2 Left Hand Drive chassis, Compactor body capacity could up to 10,000liters, which equipped with CAN Electric Control System and Hydraulic Joystick Control System, mainly used for garbage collection and transportation, and the working aerial can be city street, factory, community and other areas of need.

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 garbage compactor body material is international standard high strength carbon steel, both internal and external with anti-rust painting, which can effective to avoid rusting. As for compactor body capacity is 10CBM and safety enough to collecting & transporting waste on customer requirement.

The ISUZU 4x2 Garbage Compactor Truck equipped with new designed CAN control system, multifunction garbage compression system, side climbing ladder, Electric control boxes in cabin and rear of hopper, rear tilting device to collecting garbage from international standard 240L & 1100L bins, two units waste water collection tank can efficiently prevent second pollution during transportation. Cab for the single-row Comfortable seat, nice driving feeling. Therefore, the vehicle is an ideal Fuel Tanker Truck mainly for oil transportation & refueling function.



(Preview for your ISUZU 10CBM Garbage Compactor Truck)



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Chapter 2, Main Technical Data

Basic parameter:

-	Total State Control of the Control o	TOOPINION TO THE	
Items		10CBM ISUZU Garbage Compactor Truck	
S	Outer Dimension (L×W×H) (mm)	7350*2300*2580	
Z E	Wheelbase (mm)	3815	
Ker	b Weight (kg)	6800	
G	Gearbox brand	ISUZU	
E A	Model	ISUZU MLD 6-shift gearbox	
R	Type	Manual	
Cab capacity (includes driver)		2+1	
Е	Brand		
N	Model	4HK1	
G	Туре	Four cylinder inline, four stroke, water-cool, turbocharged Inter-cooling, diesel	
N	Rating Power (kW/HP)	140 / 190	
	Rading Fower (KVV/IIF)	1407130	

Note: 1.We keeps the right to revise the parameters on the list above.

Garbage Body basic parameter list

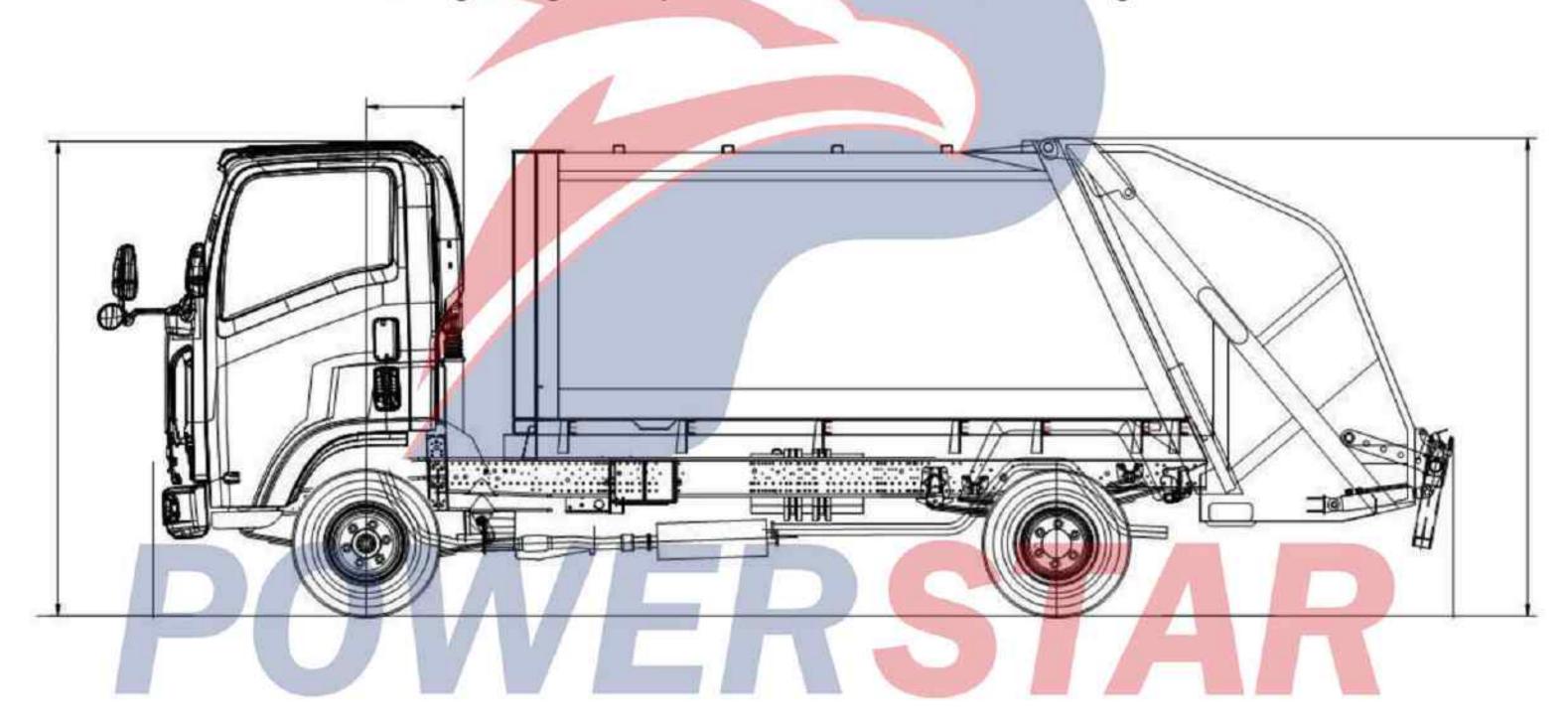
Items			Parameter	
	Capacity (CBM)		10	
	Material		Standard Carbon Steel	
	Painting	Internal	With anti-rust painting	
		External	Gray painting as required	
		Electric Control	Control Box in Cabin	
	Control		Control Box two sides of hopper	
Garbage Body	ige System	Hydraulic Control	Behind of cabin at driver side	
Jour	PLCVVV	v:15uZut	New designed CAN System	
	Hydraulic Cylinder quantity	Hopper	2	
		Slide Plate	2	
		Scraper	2	
		Tilting device	2	
		Push Plate	1	



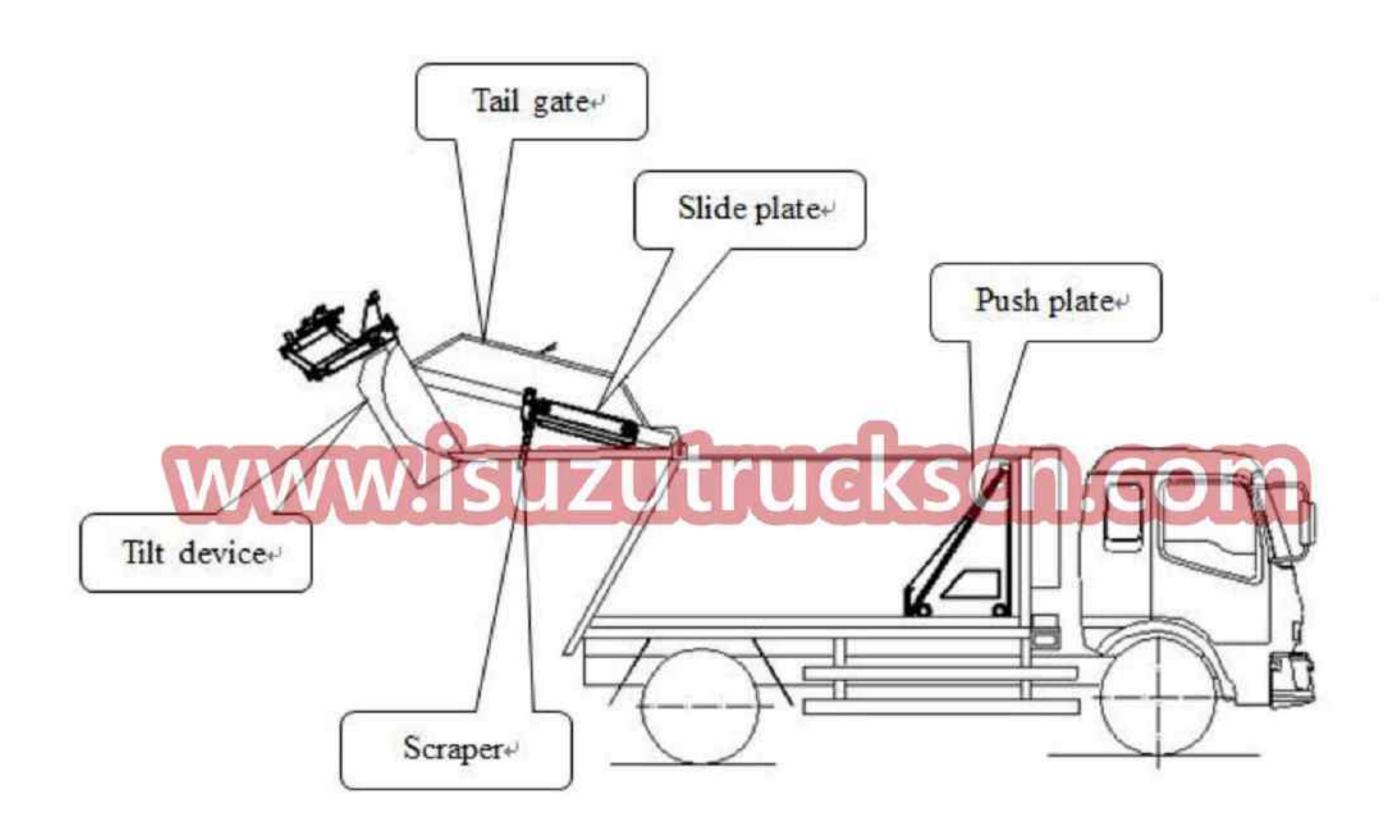
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Chapter 3, Garbage Compactor Truck Structure Components

Overview for ISUZU 10CBM garbage compactor truck technical drawing:



Above drawing show that there are safety-guards at two sides; at rear of tank is hopper for garbage collection; in front of the tank equipped climbing ladder. Below figure help you better understanding the structure of the garbage truck:





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Electric Control Box (In tailgate)



Electric Control Box (In cabin)

Hydraulic Control Joysticks (At drive side)

Each button has three indicators, means as below:

First Indicator: Orange → Waiting for work
Second Indicator: Green → Working ON

Third Indicator: Red → Emergency and need to check system

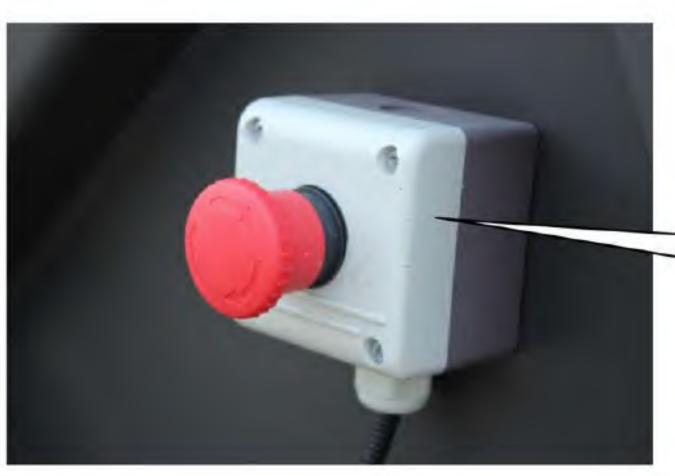


Electric Control Box (In cabin)



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Electric Control Box (In tailgate)

Emergency stop Button (In tailgate)



Hydraulic Control Joysticks (At drive side)





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Front View: garbage collection system and waste water collecting bins







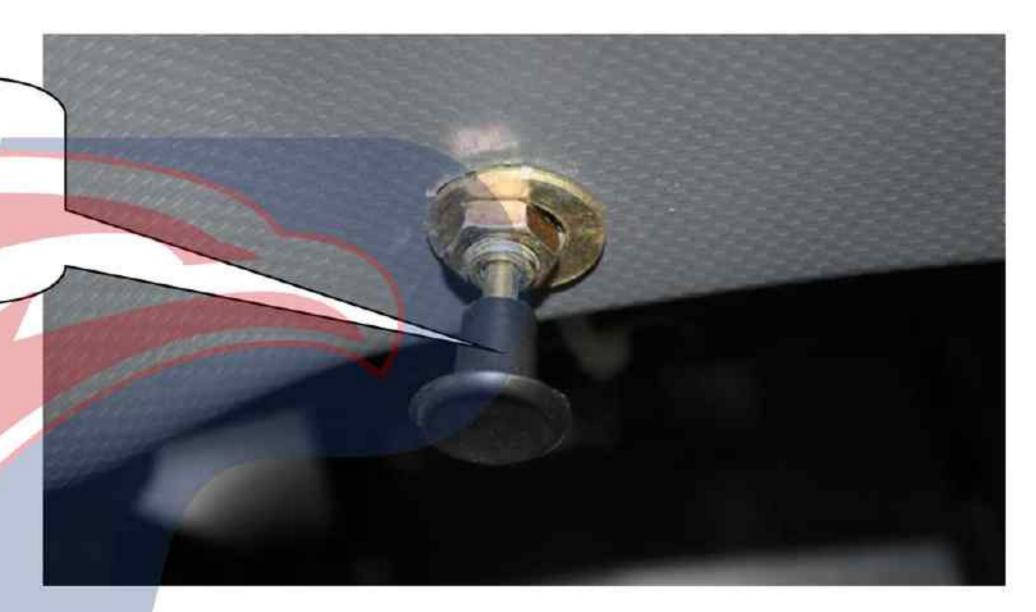






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Rear top rotation light system and control button (Right hand of steering wheel)



Two unit rotation light at rear top of garbage compactor body





UPPER POSITION
(DRIVING POSITION):
PTO switch is OFF, the
garbage compactor truck
stop working

PTO Switch in Cabin (Behind of the driver seat)

LOWER POSITION (WORKING POSITION): PTO switch is ON, the garbage compactor truck ready for working



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Chapter 4, Garbage Compactor Truck Working Principles

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

i ,How are the Garbage Compactor trucks working?

The ISUZU Garbage Compactor Truck makes use of the special power take off (PTO) to get power from the engine, and then transfer the power to the Gear Pump via drive axle so to rotate the pump. The pump start working to transfer hydraulic oil to cylinders through pipelines, and cylinders working to make all garbage trucks equipment working, including tailgate, push plate, slide plate, scraper and tilting device. And then realize all function of the garbage compactor truck.

ii, What is the main component for truck?

The garbage compactor truck is refitted based on the ISUZU 4x2 LHD chassis. The refit part includes garbage collection assembly, actuator device and operation system.

- Garbage collection assembly: Carbon steel material tanker body for garbage storage, with tailgate, tilting device, slide plate, scraper and push plate to realize garbage loading and unloading working.
- Actuator device: includes power take off, drive line, etc., which can pass the power from the chassis to the gear pump.
- Operation system: including CAN Electric control system (Main control box in cabin & Rear control box at side of tailgate) and Hydraulic Joystick control system, this helps come to all special functions' convert.



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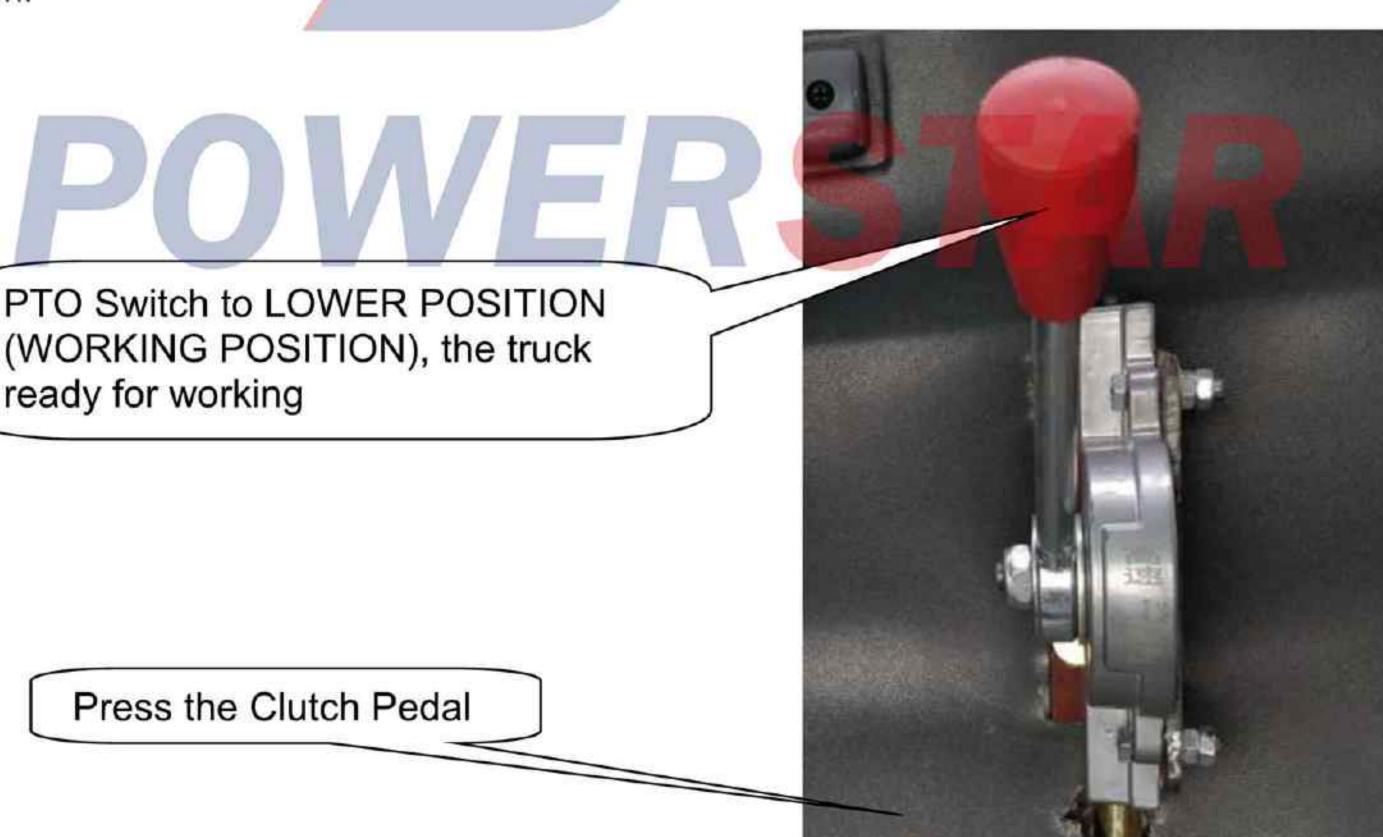
iii, How to operate garbage compactor trucks? (Very Important)

1.1 Ready to work

(If idle for a long time, please keep the truck engine run for a few minutes. Also, should ensure fuel tank and water tank are enough.)

Step 1

Thoroughly check the compactor truck to make sure working environment is good. Then start the truck engine. Press the Clutch Pedal, meanwhile press the PTO (Power Take Off) to Working Position.



Please Note: Please keep the PTO at Driving Position while driving the truck!

Please does not operating the garbage compactor system while driving the truck!

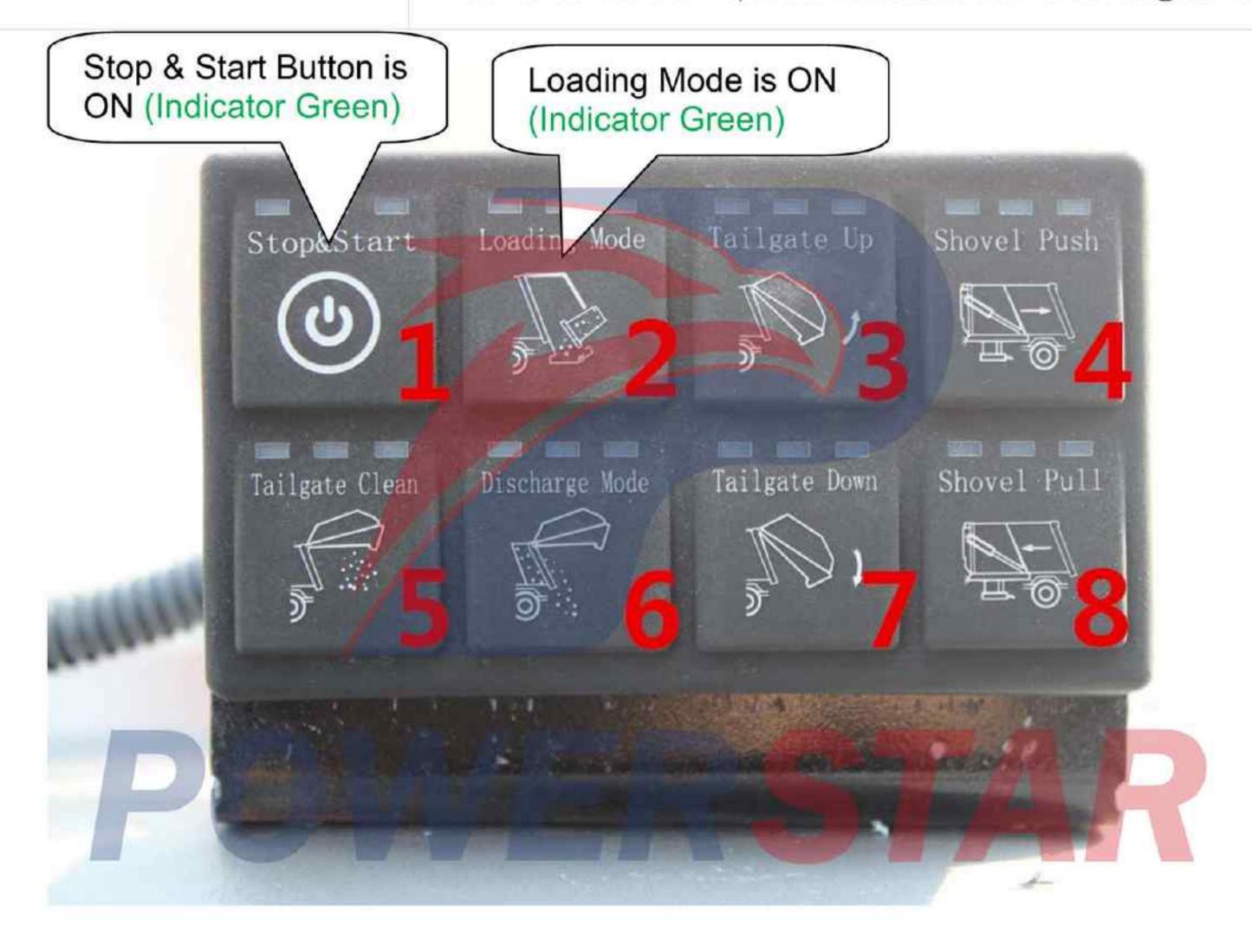
Step 2

Make sure the working environment is safe. Press the Stop & Start Button 5-6 Seconds to start the electric system, the indicator is green means power ON. Then turn on the button to Loading

NOTE: No staying under Tail Gate



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Switch 1: Stop & Start (Whole truck electric box working)

Switch 2: Loading Mode (Truck for loading process)

Switch 3: Tailgate Up (Control Tailgate rising up)

Switch 4: Shovel (Push Plate) Push (Push Plate move out to discharge garbage)

Switch 5: Tailgate Clean (Open waste water tank cover for water discharging)

Switch 6: Discharging Mode (Truck for discharging process)

Switch 7: Tailgate Down (Control Tailgate falling down)

Switch 8: Shovel (Push Plate) Pull (Push Plate move in and ready for next process)

> Step 3

Rear Control Box operates instruction.

Kindly refer to below picture to be familiar with the box panel

Automatic operating system & Manual operating system available to you!



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The CAN system default is AUTO Mode

Button 1

AUTO Mode: press once, single cycle

Button 2

AUTO Mode: press once, continue cycle

Button 3

MANUAL Mode: press to make scraper open

Button 4

MANUAL Mode: press to make slide plate upward

Button 5

Work Light: for night work

Button 6

MANUAL: press once, change to MANUAL Mode

Button 7

MANUAL Mode: press to make scraper close

Button 8

MANUAL Mode: press to make slide plate down

Button 9

LEFT: tilt device Down RIGHT: tilt device Up

Button 10

Emergency STOP: press once, stop any process once

Main STOP Button

PUSH IN: stop all process, Button 1~10 not working

PULL OUT: all button 1~10 working





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Automatic operating system

(Default Mode)

Step 3.1.1

Button 9 turn to DOWN, the **tilt device** <u>down</u>, collecting the garbage from 240L bins (2 units 240L garbage bins or 1 unit 1100L garbage bin can be used at same time);

Then turn to UP, the tilt device up, the garbage down to the Tail Gate stuffer.

Turn to DOWN again to make tilt device reposition before the scraper working.

(How does this model garbage compactor truck tilting device working?)



240L Tilt Device DOWN



240L Tile Device UP



1100L Tilt Device DOWN



1100L Tile Device UP

Step 3.1.2

Press once the Button 1, compression single cycle (little garbage at Stuffer)

Press once the Button 2, compression continue cycle (much garbage at Stuffer)

Step 3.1.3

Press once the Button 10, when continue cycle compression finished.

NOTE: Press the Button 10 or Main STOP Button when there is an emergency!

Step 3.1.4

Make the **tilt device** <u>STOP</u>, the truck is ready for next compression work.



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Manual operating system

Press once Button 6 turn to MANUAL Mode

Step 3.2.1

Button 9 turn to DOWN, the **tilt device** <u>down</u>, collecting the garbage from 240L bins (2 units 240L garbage bins or 1 unit 1100L garbage bin can be used at same time);

Then turn to UP, the tilt device <u>up</u>, the garbage down to the Tail Gate stuffer.

Turn to DOWN again make tilt device reposition before the scraper working.

Step 3.2.2



Step 3.2.3

Press the Button 7 to make the **scraper** <u>closed</u> to collect garbage.

Step 3.2.4

Press the Button 4 to make the slide plate upward. KSCIN:COM

Step 3.2.5

Press the Button 3 to make the scraper open again.

Step 3.2.6

Operate once again to collect and compress more garbage.

(NOTE: tilt device should be Stop every time before the scraper working)



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Step 4

NOTE: Only suggest to use MANUAL JOYSTICK when maintenance or emergency!

(Operation Joysticks with English version plate for operating guidance)

Control the manual joystick to work.

Joystick1: Shovel

Control the Push Plate Out & In

Joystick2: Sliding Plate

Control the slide plate Down & Up

Joystick3: Scraper

Control the scraper Off & On

Joystick4: Lifting

Control the tail gate Up & Down

Joystick5: Rolling Over

Control the Tilting Device Rise & Down



1.2 Dumping the garbage

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Step 1

Make sure no staying under the Tail gate

(Please be sure for every compression work)

Step 2

Turn the main control to Unload

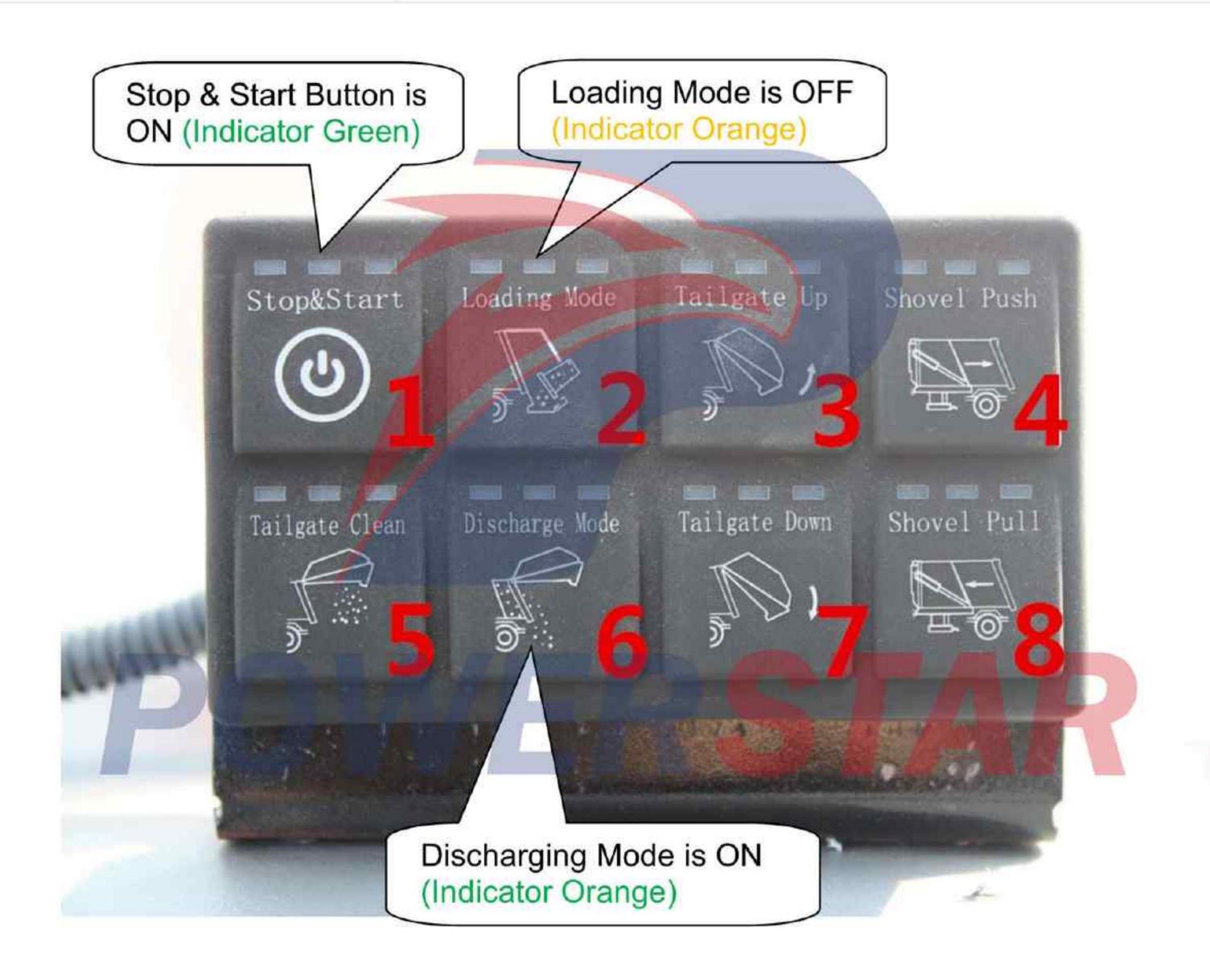
Tilting Device Accelerate Button:

PULL OUT: Tilting device working fast

PUSH IN: Tilting device working normal



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Step 3

Press Button 3 or Control Joystick 4 to make the tail gate <u>up</u>.





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> Step 4

Press Button 4 or Control Joystick 1 to make the **push plate** move <u>out</u>.

Step 5

Wait until all garbage discharged

Step 6

Press Button 8 or Control Joystick 1 to make the push plate move in until reposition.

Step 7

Press Button 7 or Control Joystick 4 to make the tail gate <u>down</u>. Please reposition all when tail gate <u>down</u> completely.

> Step 8

Drain out all the waste water produced by compressing work. (Press Button 5 if necessary)



Waste Water Vents & Manual Cover (Below the Tailgate)



Waste Water collection tank



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1.3 Cleaning the body

The engine must **flameout** when arrive at cleaning field.

Step 1

Clean vehicle exterior.

Press Button 3 or Control Joystick 4 to make the tail gate <u>up</u>. Then cleaning the inside body. Clean the tail gate device internal.

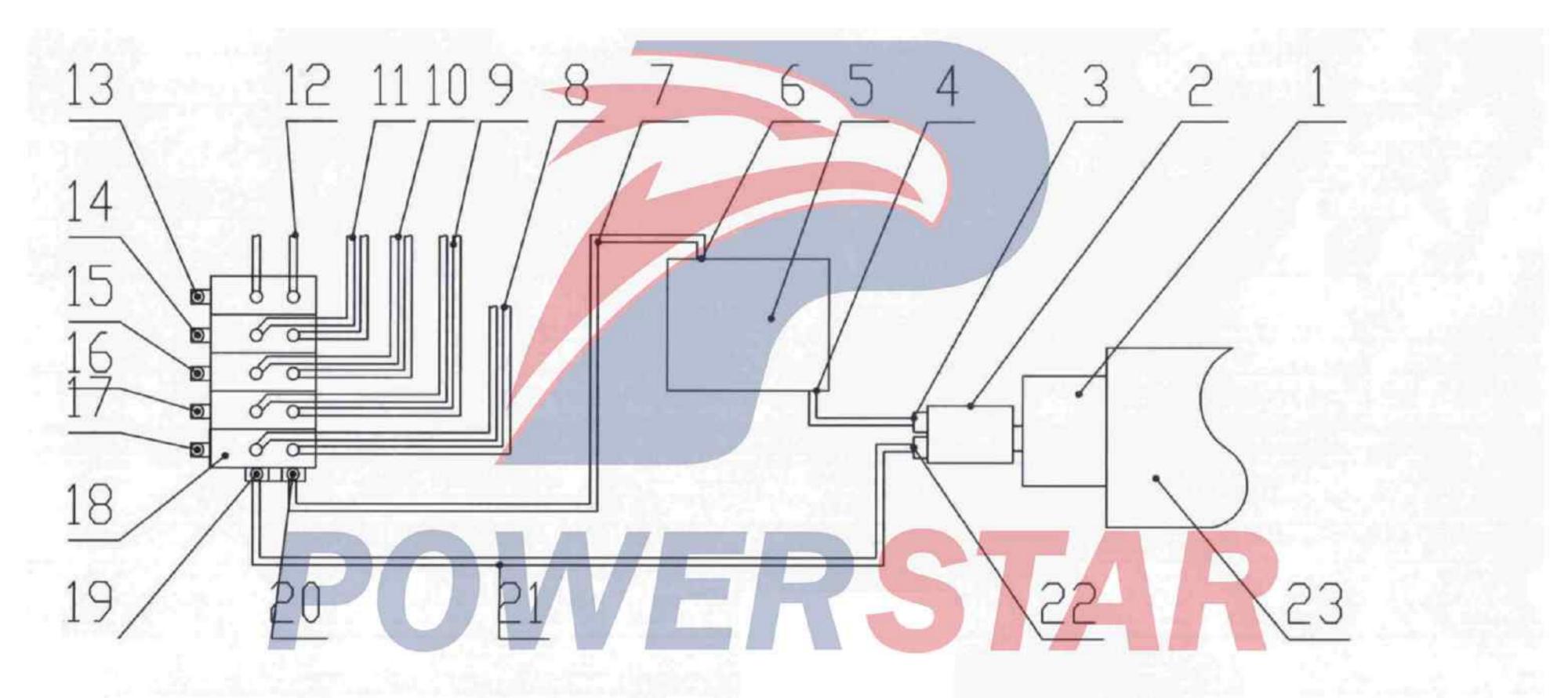
Step 2

Add some lubrication on spindle to keep compactor work safety and smooth.



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Garbage Compactor Truck Hydraulic Drawing:



1, PTO

8. Push Plate Oil Cylinder

13. Joystick 5 for Item 12

18. Multi-way Valve 23. Chassis Gearbox

2. Oil Pump

9. Slide Plate Oil Cylinder

14. Joystick 4 for Item 11

19, Oil Inlet for Multi-way Valve

3. Inlet Pipe for Oil Pump 10. Scraper Oil Cylinder

15, Joystick 3 for Item 10

20. Oil Outlet for Multi-way Valve

4. Outlet pipe for Oil Tank11. Tail Gate Oil Cylinder

16. Joystick 2 for Item 9

21. Oil Pipeline

5. Hydraulic Oil Tank 12.

12 Tilt Device Oil Cylinder 1

17, Joystick 1 for Item 8

22. Oil Inlet for Oil Pump

6. Inlet Pipe forMulti-way Valve

7. Oil Pipeline

Hydraulic Oil change suggestion: YWZ-80T hydraulic oil or standard hydraulic oil

For First Time: After 150-hour working, please change the hydraulic oil;

For Second Time: After half year working, please change the hydraulic oil;

Form Third Time: After every year working, please remember to change the hydraulic oil.



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Chapter 5, Maintenance and Repair Instruction

Maintenance and Repair Instructions

The routine maintenance requirements and procedures for each subsystem of the compactor are described.

Every day

- 1. Before maintenance work, the following things should be done firstly:
 - a. Turn off the PTO(power take-off) and speed-up switch, turn the manual joysticks to middle level.
 - b. Flameout the engine, take the key and put it into your pocket or other place to make sure it's safe.
 - c. Use the parking brake.
 - d. Put a sign wrote "under maintenance, please do not start" on the steering wheel.
 - e. Put chock under the wheels to make truck stability.
- 2. Cleaning vehicle exterior, the inside and outside of the tilt device, the oil tank and pipe, all these daily working has purpose to prevent rust and to keep compactor ready for work anytime.
- 3. Carefully examine the hydraulic system, including whether hydraulic oil at normal level, whether the hydraulic pipeline leak oil or not, which can protect the compactor truck and always keep the compactor ready to work anytime.
- 4. Carefully check whether the electric system work normal or not, including the tail lights, the work indicating lamp etc.
- 5. Carefully clean the compress lock at the rear of the truck. To keep compression work efficiently.
- 6 Carefully check the entire compactor to inspect whether any warning signs and operating instruction sign fell off. Catch up on them when necessary.

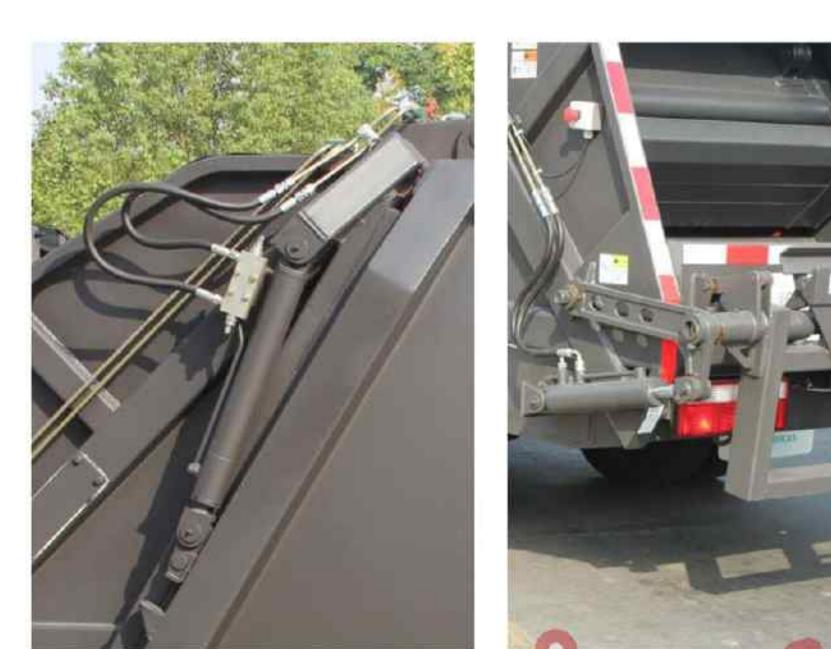


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- 7. Lubricate the whole pathway of the compressed garbage truck every day.
- 8. Carefully clean the push plate and surrounding of the oil tank.

Every week

- 1. Carefully inject butter or other lubrication to the spindles of the compactor, places are as below pictures:
 - a. Lubricate the spindles of the tail gate
 - b. Lubricate the cover of pivots of the scraper
 - c. Lubricate the oil cylinder bearing of the scraper
 - d. Lubricate the pathway of the slide plate
 - e. Lubricate the all the connecting rod
 - f. Lubricate the chassis by following the maintenance manual





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2. Carefully exam the compactor to check out whether any connection place need to fasten again.

Every month

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1. Carefully exam all the pipes, find out whether there is any leakage. If there are, please exchange



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it immediately.

- 2. Carefully exam the compression cylinder and the scraper oil cylinder piston rod, find out whether they are all working normally.
- 3. Carefully exam the push plate oil cylinder, find out whether it work normally.
- 4. Carefully lubricate axles of the push plate to make it work smoothly and efficiently.
- 5. Carefully lubricate the sideways of the push plate to make it work normally.

Every 6 month

- 1. Carefully cleaning the air filter.
- 2. Carefully cleaning the oil suction filter.
- 3. Carefully replace the oil filter cartridge
- 4. Carefully exam the entire body of the truck to find out if anything need improved. Such as any place rusting; is the framework still work normally etc.

Every 2 Year

- Cycle maintenance as mentioned above.
- 2. Carefully clean fuel tank, replace the hydraulic oil. CKSCIN:COM



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Maintenance of the hydraulic system

1. Hydraulic oil tank

- a. Fine filter of oil return pipe: First exchange happened after 50 hours use, then every 250hours. When there is something wrong with the main parts of the hydraulic system also should change it.
- b. Respirator: Keep the respirator clean, non-stop and correctly installed to make the air can goes inside the oil tank freely. Exchange the respirator every 6 month. (the exchange time should be short when working at dirty environment for a long time.)
- C. Hydraulic oil: First exchange happened after 150 hours use,
 Second exchange happened after 6 month use,
 Then every 12 months use.

NOTE: YWZ-80T hydraulic oil or standard hydraulic oil;

AR

d. Oil outlet strainer: Should be cleaned every time exchange the oil. Replace it when necessary.

2. Oil cylinder

- a Carefully exam the oil cylinder to find out whether there is leakage and noise or not every week.
- b Carefully check the oil tank, repair when there are scar on piston rod, repair all the scars in time to avoid any danger.





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Chapter 6, Troubleshooting

Failure	Cause	Solution
Oil leakage happened on oil cylinder piston rod	1. The damage of the sealing ring	Carefully exam the guide sleeve and replace the sealing ring
	2. There are scars on the surface of the piston rod	2、Replace the parts.
Piston rod move slowly	1. Some air mixed in the hydraulic cylinder or in the hydraulic oil	1、Eliminate all the air
POV	2. There are no hydraulic oil in the tank or oil level is too low to work normally.	2. Inject some hydraulic oil and carefully check the system.
	3. Viscosity of hydraulic oil failing standard	3. Replace hydraulic oil to recommended ones.
	4. Stoppage of the oil inlet/outlet strainer	4. Carefully clean or replace it, and find out the polluted reason
		5. Carefully check the oil pipes and clean them.
	5. Stoppage or limiting of the hydraulic oil in system	6、Repair or replace it
	6. Leakage of the oil suction pipe	7、Repair or replace it
	7. Abrasion of the oil pump	8. Carefully check the pump, valve and oil cylinder, find the abrasion
	8、Abrasion of some parts	part and repair or replace it.
WW.	suzutrucks	9. Refer to the technical manual to adjust properly
	Adjustment of the parts are not proper.	10. Carefully clean it
	10. Pressure valve is too dirty	11. Refer to the technical manual to load properly.
	11、Overload of the system work	12 Reconnect the oil pipe properly



	 12. Improper oil pipe connection 13. Oil pump not work 14. The hydraulic oil temperature is too low 15. The engine's revolving speed is not enough 	 13. Carefully check the PTO 14. The viscosity is too high and should be adjust oil temperature to working level 15. Adjust to proper level
Hydraulic cylinder pushing is powerless	 Damage of the piston sealing System pressures is too low (the overflow valve became imbalance) Damage of the oil pump, System pressures is too low Shortage of the hydraulic oil Stoppage of the oil filter 	1. Carefully exam and replace the sealing element 2. Carefully exam and adjust the pressure of the overflow valve 3. Carefully exam and replace the oil pump 4. Carefully exam and fulfill the hydraulic oil 5. Carefully exam and replace the filter element
Leakage of the oil pump	1. Damage of the sealing filter 2. The oil pipes are not sealed as required	 Carefully exam and replace the sealing ring Carefully exam, tighten the joint Replace the joint or add some sealant to seal the joint





Blister exist in the hydraulic oil	1. Oil level in the tank is too low	Adjust the oil to required level. Carefully exam the leakage of the system.
	2. There is water in the hydraulic oil	2. Exchange new hydraulic oil
	3. Leakage of the pipe between the oil tank and the pump	3. Fasten the joint or exchange suction pipe
	4. Hydraulic hose is kinked or squished, and limit the flow of the oil	4、Replace the oil pipe
	5. Have not choose the right hydraulic oil	5. Exchange to the recommend oil
	6. Abrasion of the sealing	6. Carefully clean or replace it.
	parts in oil pump axle	
Oil pump is too noise while working	1. The hydraulic oil viscosity is too high	1. Change low viscosity oil
	2. Speed of the oil pump is too high	2. Adjust the oil pump's speed to required level.
	3. Suction pipe is blocked or extrusion	3、Cleaning or exchange the suction pipe
	4. The oil tank's respirator is blocked	4. Open the respirator, Carefully wash to clean it.
	5、Primary oil filter is blocked	5. Cleaning the filter screen
	6. Parts sticking to each other	6. Carefully repair the sticking parts, cleaning all of them, and replace when necessary
WW.	7. There are air in the	7. Carefully check the system, replace the suction pipe and sealing parts.
	hydraulic oil	8、Adjust to proper level
	8、Hydraulic oil level is too low	9. Repair the oil pump and find out the reason
	9. Parts of the oil pump is abrasion	



Leakage of oil cylinder	1. Damage of the cylinder	Replace the cylinder and find out why it damaged
	2. Damage of the parts of piston valve3. Parts of the oil cylinder is	2. repair or replace the piston valve, find out the reason3. Fasten the parts until no
	4. Damage of the piston rod	leakage 4. Carefully exam, exchange it when necessary
Hydraulic oil temperature is too high	Use the control valve for a long time	The manual joystick should reposition when not use
	2. Hydraulic oil is not proper	2、Exchange to proper oil
POV	3. The revolving speed is high 4. The inside leakage	3. Adjust to proper level 4. Carefully check the pump, valve and oil cylinder to find out reason, then repair it.





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ISUZU Garbage Compactor Truck Installation Guidance

1. Towing out the ISUZU compactor truck from 40HQ Container



2. Install the rear tire on ISUZU garbage compactor truck

