# **User's Manual**



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**OWNER'S MANUAL** 

**Preface** 

Thank you for purchasing our products. For better using your ISUZU all-wheel drive Dump 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 dump 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 dump 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**

Our off-road Dump Truck based on type II ISUZU 4\*4 LHD chassis; tipper body capacity could up to 3 tons.

The truck use hydraulic system and mechanical system to realize truck good self-discharging function.

Trucks widely used in city, mining area, construction area, etc.

The vehicle designed to fully rely on the advantages of the original 4\*4 left-hand-drive chassis, fully consider the product's convenience, reliability and features. The tipping model can be optional as rear tipping system and side tipping system, which use operation valve to control hydraulic cylinder working. The tipper body material is international standard high strength steel, all with anti-rust painting, which can effective to avoid rusting.

The ISUZU 4\*4 Dump Truck equipped with high quality dump body and middle hydraulic lifting cylinders, which loading capacity can be 3Tons. The dump trucks widely used together with excavator trucks, loading trucks and belt conveyor machine. Therefore, the dump truck is an ideal Construction Truck mainly for heavy duty goods loading & transportation.



(Preview for your ISUZU 3Tons Dump Truck)

# Chapter 2, Main Technical Data

### Basic parameter:

	Items	4x4 ISUZU Dump Truck	
S I	Outer Dimension (L×W×H) (mm)	5500*1900*2400	
Z E	Wheelbase (mm)	3360	
Ker	b Weight (kg) 3100		
G E A R	Gearbox brand	ISUZU MSB	
	Model	5-shift gearbox	
	Туре	Manual	
Cab capacity (includes driver)		2	
ENG-N	Model	ISUZU 4KH1-TCG40	
	Туре	Four cylinder inline, water-cool, turbocharged Inter-cooling, diesel	
	Rating Power (kW/HP)	88/120	
	Emission Standard	Euro 4	

Note: 1. The vehicle height includes tipper body front fence.

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

# **Dump System basic parameter list**

Items Whatsapp:			+86 159 7192 0800 Parameter
Control System			Hydraulic control system
Hydraulic Lifting			Middle lifting device
	Capacity (Ton)		3
	Material		High Strength Carbon Steel
		Internal	With anti-rust painting
Garbage Container		External	White painting
	Dimension	Length (mm)	3300
		Width (mm)	2200
		Height (mm)	550

#### Chapter 3, What is Dump Truck

#### i , Dump Truck Basic Structure

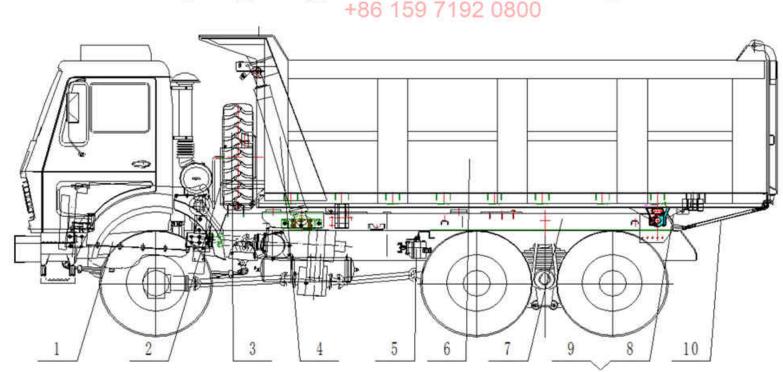
We produced dump truck also named tipper truck, self-discharging truck. This based on famous ISUZU brand truck chassis, refitted with special upper structure. And the components consist of Hydraulic Lifting Device, Dump Body, Auxiliary Frame and Spare Parts. Sample technical drawing with component as following:

Hydraulic Lifting Device: This device including gear pump, lifting valve, hydraulic oil pipeline system, lifting device, position-limit mechanism.

**Dump Body**: Which material is high strength carbon steel, including front plate, side plate, bottom plate, rear plate, and rear door switching mechanism.

Auxiliary Frame: Which material is high strength carbon steel, including longitudinal frame, transverse frame, lifting shaft, and welding place to main frame.

Spare Parts: This including safety jackstay, position-limit device and balance support.



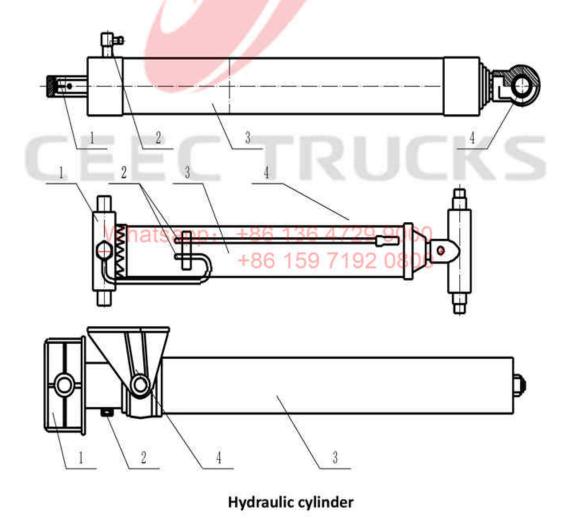
Sample Drawing for Dump Truck (6x4 model)

- 1、ISUZU Chassis 2、Hydraulic Oil System 3、Spare Tire Device 4、Hydraulic Lifting Device
- 5. Gear Pump Assembly 6. Dump Body Assembly 7. Auxiliary Frame Assembly 8. Mudguard Assembly
- 9. Rear Lamp Assembly 10. Body Lock Device (Rear Door Switching Device)

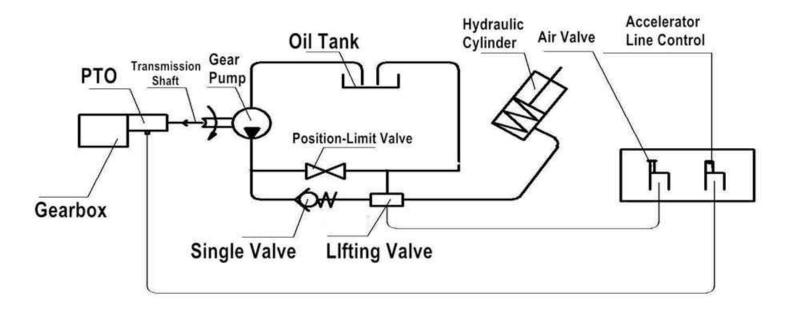
#### ii, Dump Truck Working Principle

As for hydraulic lifting system, which including control valve, PTO, gear pump, transmission shaft, hydraulic oil cylinder, hydraulic oil tank, oil pipeline, position-limit valve, etc.

The PTO (Power Take Off) gets power from Truck Engine, then transit power to Gear Pump through transmission shaft, the Gear Pump start working, Control Valve can control the hydraulic cylinder working, which can make dump body up and down working, then realize the self-discharging function.



1. Lower Installation Seal 2. Pipeline Connector Head 3. Cylinder Body 4. Upper Installation Seat



Hydraulic Lifting System working diagram

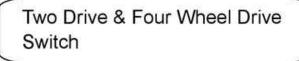
#### iii, Dump Truck Off-Road Function Notice (Important)

Truck with Off-road functions mainly used in bad road conditions, with recommend speed not too high.

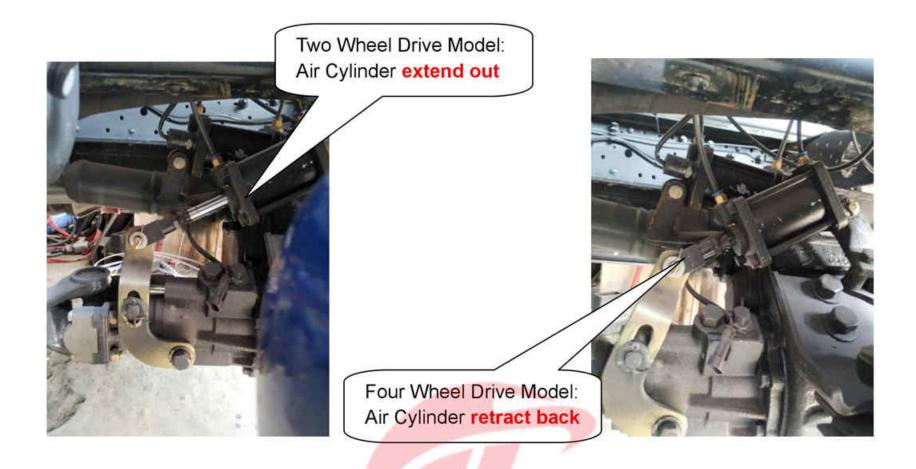
Off-road truck not allowed driving with speed over 50km/h. If speed at 50km/h, truck should stop for one hour after 3~4 hours continue driving, which can dissipate heat from the gearbox. Carefully checking gearbox air hole after long time driving, if have oil overflow, which means the gearbox temperature too high.

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Strictly avoid misoperation, Two Drive & Four Drive can be only operated when truck stopped. Because
misoperation during driving will damage the axle. Make sure the control air cylinder right position during
driving: Two Wheel Drive →Air Cylinder extend out; Four Wheel Drive →Air Cylinder retract back







3. How to use Two Wheel Drive & Four Wheel Drive: Start the truck, Turn On the Air Pump till air pressure at least 8 bar,

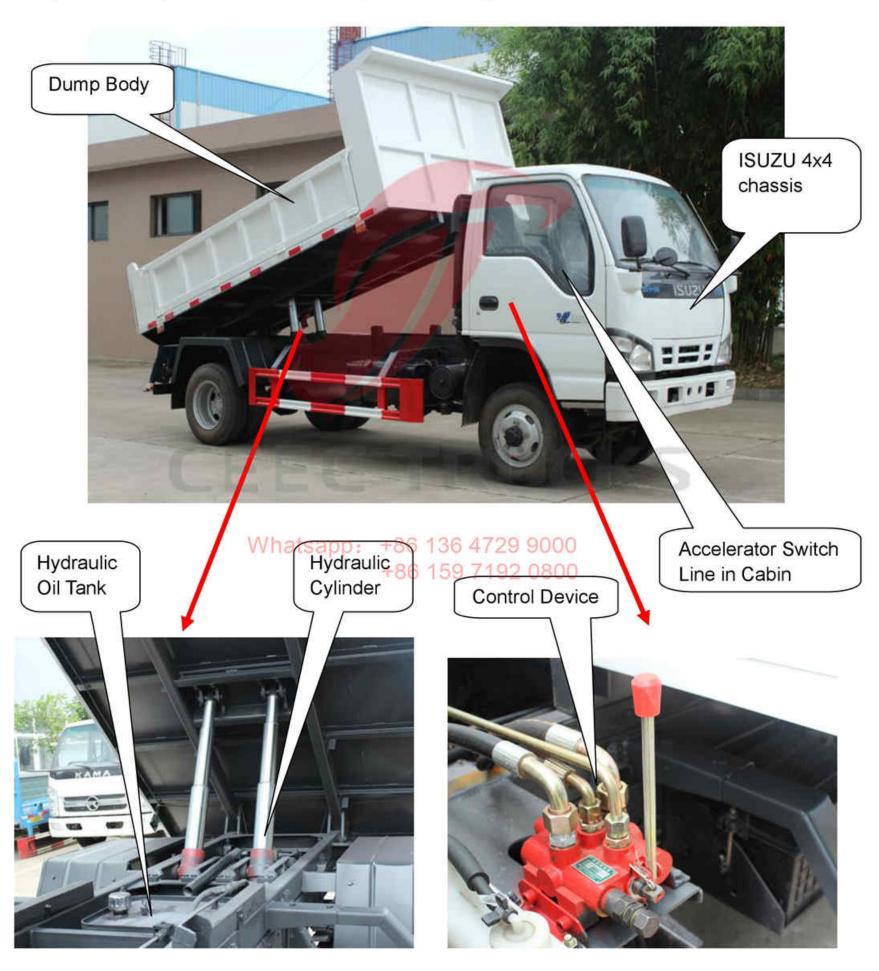


- Front Axle Maintenance: Add grease every week; Change new axle oil every 1500km / 3 months;
   Change new gearbox oil every 2000km(Oil volume approx. 4500ml)
- 5. No Overloading Operation: Recommend loading capacity is 3Tons. Strictly forbidden overloading.

# Chapter 4, How to Operate Dump Truck

# i ,Dump Truck Introduction

Kindly refer to Chapter 3 and details for dump trucks showing as below.







Accelerator Switch line



Lower Position: PTO ON

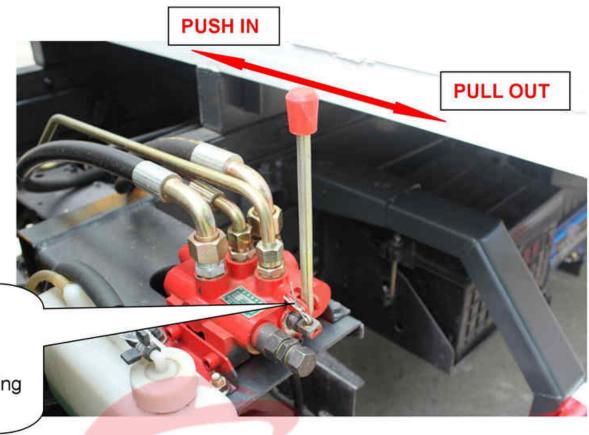
#### ii ,Dump Truck Operation Guidance (Very Important)

- 1. The Preparation for Operation: Carefully checking the operation environment, make sure no person stand around the truck, also do not forget pull the Parking Brake before any operation.
- 2. PTO Operation: Before operating the dump system, please make sure the PTO is working. Detail operation process should as follow, firstly start the truck engine and depress the clutch panel, secondly close the PTO switch, thirdly slowly loosen the clutch panel, then the oil pump start working.



Lower Position: PTO ON

NOTE: Please keep the Accelerator handle Cable at Higher Position while driving the truck! Please does not operating the dump system while driving the truck!



Control Device

PULL OUT: Dump body

lifting up

PUSH IN: Dump body falling

down

- 3. Dump Truck Operation: Carefully follow below guidance to operate your dump truck.
  - Start Up:

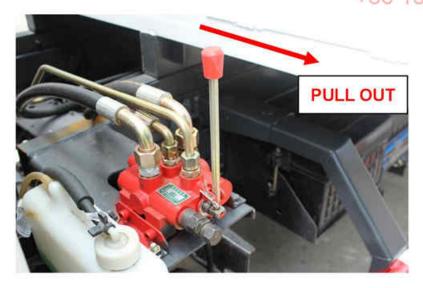
Start truck engine, keep the vehicle stops (neutral gear), and press the Clutch Plate and same time PULL OUT Accelerator Switch line, then PTO start working.

# > Lifting: CEECTRUKS

PULL OUT the Control Device, the dump body start lifting up, press the accelerator plate can make

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Operate the Control Device



Dump body lifting up

#### Falling:

PUSH IN the Control Device, the dump body start falling down, press the accelerator plate can make falling process faster.



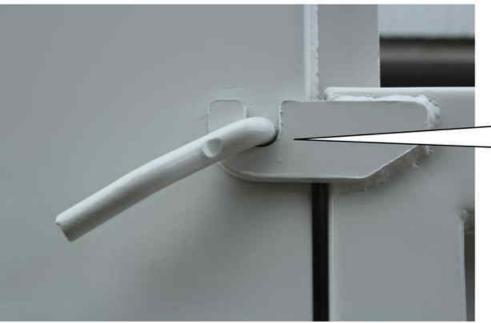
Operate the Control Device



Dump body falling down

Mechanical rear door lock, self-open/self-close during dump body lifting/falling process





Both side plate and rear plate with manual lock for Open / Close

#### Chapter 5, Others for Attention

After carefully reading the above information, you must be well known how to use the ISUZU 4x4 Dump Truck; below show some parts you need to pay attention while using the truck.

- 1. The loaded materials should be distributed in the body, strictly forbidden overloading.
- 2. Keep nobody stand around when operating the dump truck.
- Strictly forbidden the PTO on Working Position during the truck driving.
- Strictly forbidden operate the Control Device during the truck driving.
- 5. Please keeps the dump truck in flat road during discharging working, strictly forbidden discharging working in a transverse slope.
- During the whole loading and unloading process, the operator should not leave the Control Device, in case of there is an emergency.

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- 7. When truck stopped and ready for lifting work, operator should start the truck engine firstly, and make the engine idle for 3~5 minutes, then following Chapter 4 for operation.
- Make sure the truck engine idle, and then Accelerator Switch line can be UP POSITION to make PTO start working.
- 9. When dump body start for discharging working, release the accelerator plate when last level hydraulic cylinder extend, then engine rotation speed slowdown, which can reduce the dump body lifting of inertia.
  When dump body to maximum lifting angle, stop the gear pump to avoid any emergency.

# **Chapter 6 Troubleshooting**

Please kindly checking below possible troubleshooting, which just for your reference.

Malfunction	Possible Reason	Solution	
Gear Pump broke down	<ol> <li>PTO on Working Position during driving, and make PTO idling long time</li> <li>Hydraulic oil shortage, long time lifting</li> </ol>	Make sure PTO on Driving Position     Add enough hydraulic oil	
No-load body not lifting	<ol> <li>PTO on Driving Position</li> <li>Hydraulic oil shortage</li> <li>Gear pump broke down and not hydraulic oil supply</li> <li>Control Valve keeps ON</li> <li>Hydraulic oil polluted</li> </ol>	<ol> <li>Check the gear and make PTO on Working Position</li> <li>Add enough hydraulic oil</li> <li>Repair or replace new gear pump</li> <li>Control Device air shortage, add enough air and check the seals. Replace new valve if necessary</li> <li>Cleaning all hydraulic system parts and change new hydraulic oil</li> </ol>	
Full-load body not lifting	PTO on Driving Position     Dump truck over loading     Lifting working process on rough road  Whateann +86,136,472	Check the gear and make PTO on     Working Position     Use the truck with rated loading weight     Lifting working on flat road	
Dump body can lift a little, not to the maximum lifting angle	+86 159 719  1. Air pressure not enough  2. Hydraulic oil shortage	2. Add enough hydraulic oil	
Dump body lifting to an angle then start falling down automatically	Hydraulic system leakage	Carefully check all hydraulic parts,     fasten the pipeline or change new     parts to solve leakage problem	
There is a noise during lifting process  1. Dump truck over loading 2. Lifting working process on rough road		Use the truck with rated loading weight     Lifting working on flat road	