

CEEC Mobile Stage Truck

User's Manual



CEEC AUTO LIMITED

<http://www.ceetrucks.com>

Email: info@ceetrucks.com tom@ceetrucks.com

Mobile Stage Truck



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+86 159 7192 0800

OWNER'S MANUAL

Preface

Thank you for purchasing CEEC TRUCKS products. For better using your mobile stage 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 mobile stage 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 mobile showing 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 Mobile Stage Truck based on type II 4*2 model chassis, whole truck body length could up to 7.6 meter, mainly used for platform building and stage showing, and the working aerial can be village, factory, community and other areas of need.

The vehicle designed to fully rely on the advantages of the original 4*2 LHD chassis, fully consider the product's convenience and reliability. The mobile stage body material is international standard carbon steel, with inside decorated with white painting plank floor, which make the truck beautiful and suitable for stage showing. Inside of the body, this equipped with several of showing equipment, such as hydraulic platform, projector, automatically screen, electric system, showing lamp, sounder, stainless steel material ladder and hand rail, etc.

The customized 4*2 Mobile Stage Truck equipped with strength stage platform, front and rear climbing ladder, whole light showing equipment and whole control system to help better use of the mobile stage truck. Therefore, the vehicle is an ideal Mobile Stage Truck mainly for stage building and showing.



(Preview for your Mobile Stage Truck)

Chapter 2, Main Technical Data

Basic parameter:

| Items | | Mobile Showing Truck |
|--------------------------------|------------------------------|--|
| S I Z E | Outer Dimension (L×W×H) (mm) | 9900*2640*3850 |
| | Wheelbase (mm) | 4500 |
| Kerb Weight (kg) | | 9000 |
| G E A R | Gearbox brand | MLD |
| | Model | 6-shift gearbox |
| | Type | Manual |
| Cab capacity (includes driver) | | 2 |
| E N G I N | Model | 4HK1-TC |
| | Type | Four cylinder inline, four stroke, turbocharged Inter-cooling, diesel |
| | Rating Power (kW/HP) | 139 / 190 |
| | Emission Standard | Euro 4 |

Note: 1. The vehicle height includes the whole body.

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

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Stage Body basic parameter list

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| Items | | Parameter | |
|-------|-------------------|--|-----------------------|
| Body | Length | 7.6 m | |
| | Painting | Whole white with customer Logos | |
| | Material | Internal | Plank floor |
| | | External | Standard carbon steel |
| | Special Equipment | Well prepared on truck based on customer requirement | |

Chapter 3, Mobile Stage Truck Structure Component

Overview for 4*2 mobile stage trucks:



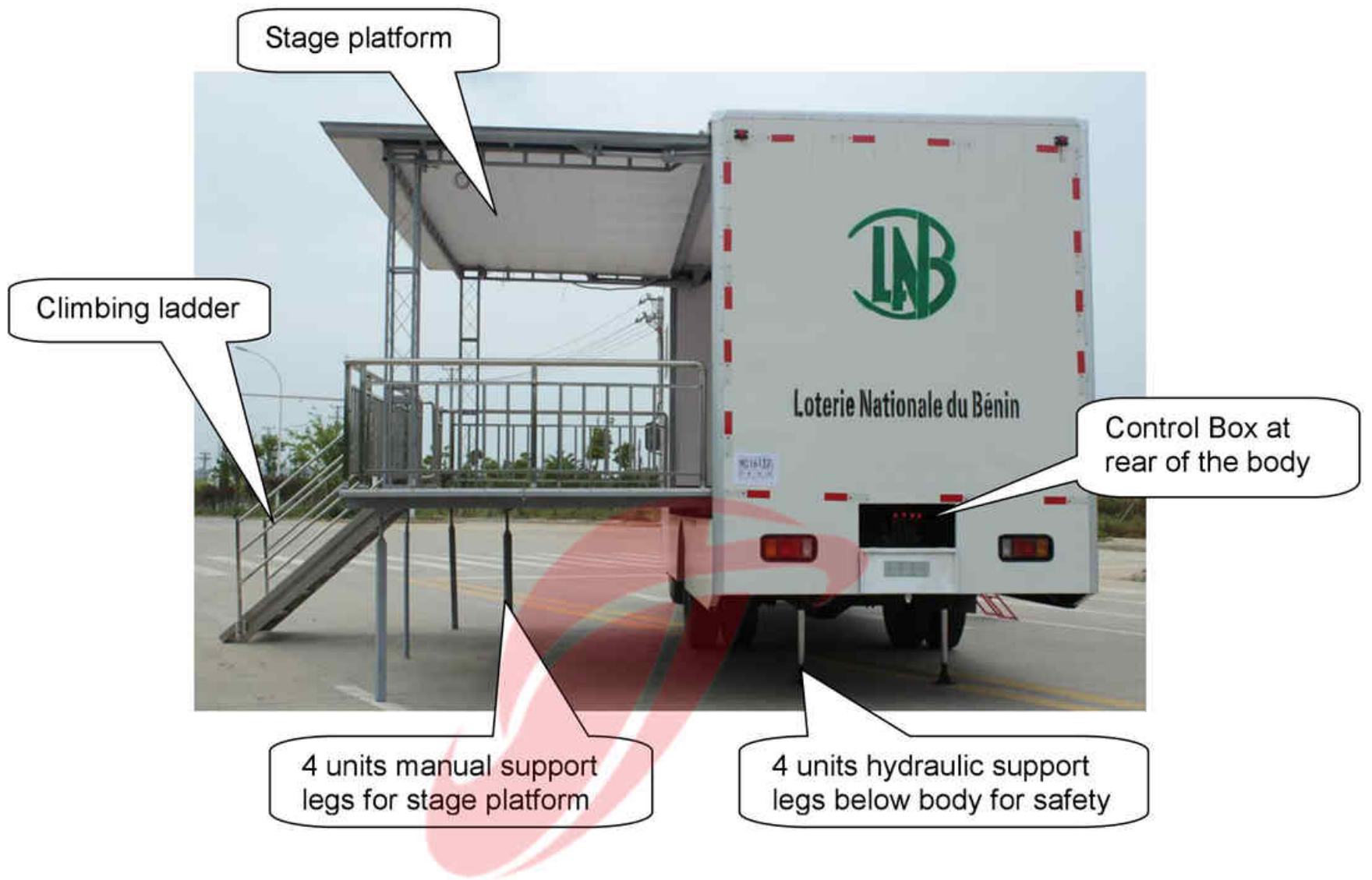
Above picture show the working model of the mobile stage truck; the body length can be 7.6 m, the outstretched platform is very convenient for regular usage.

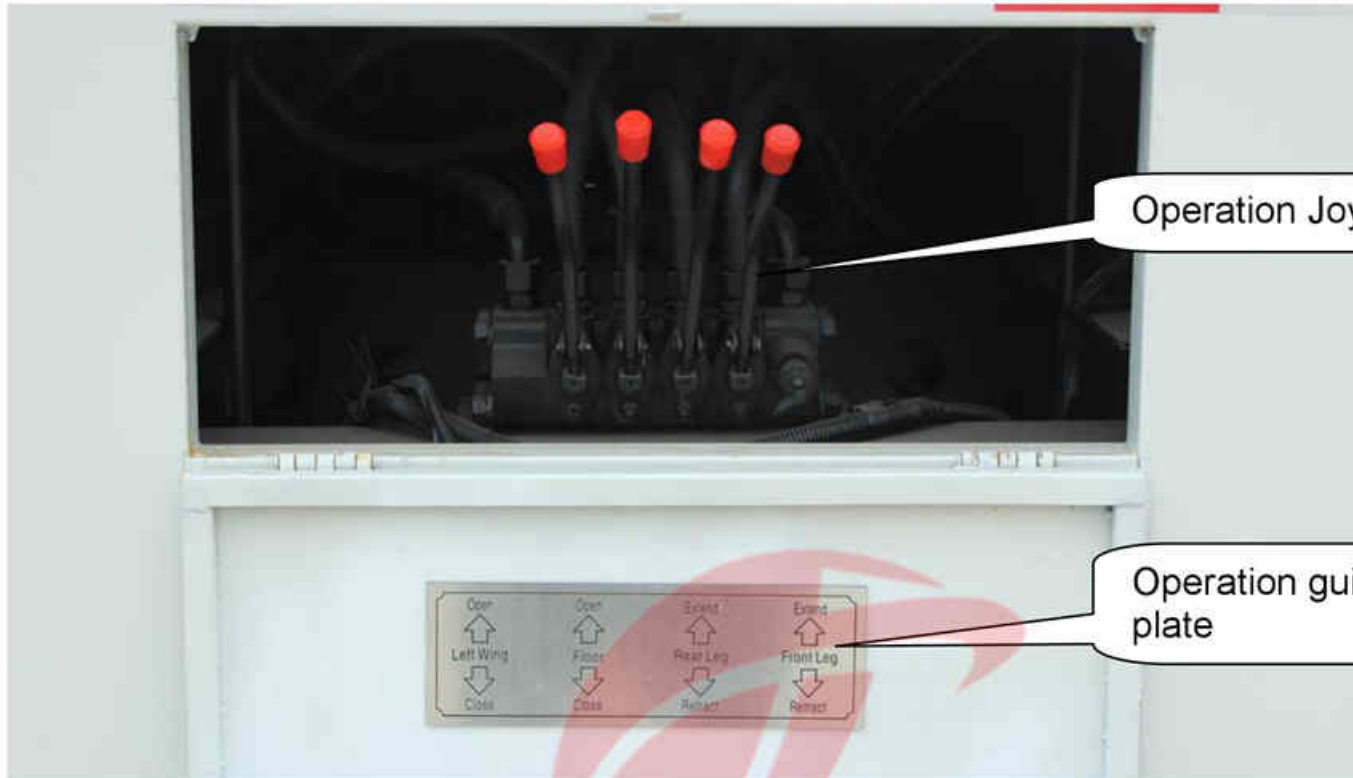
Whole view of the body: left wing, floor of stage and support legs



Side plate of the body lifting up as **Left Wing**

Outstretched as **Floor**





Operation Joysticks

Operation guidance plate

| | | | |
|----------------|-----------------|---------------|----------------|
| Open ↑ | Open ↑ | Extend ↑ | Extend ↑ |
| Left Wing ↓ | Right Wing ↓ | Rear Leg ↓ | Front Leg ↓ |
| Close ↓ | Close ↓ | Retract ↓ | Retract ↓ |

In cabin: PTO control valve (Near the steering wheel)



Push in:
PTO stops working

Pull out:
PTO start working

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Chapter 4, Mobile Stage Truck Working Principles

*The operator should fully understand Whole Structure and Working Principle for customized 4*2 Mobile Stage Truck before any operation. Only trained person can operate this vehicle properly and to prevent unnecessary accidents and equipment damage.*

i ,How are the showing trucks working?

*The customized 4*2 Mobile Stage Truck makes use of the special power take off (PTO) to get power from the engine, and then pass the power to the gear pump. The gear pump, hydraulic oil pipelines and control valves consist of the pipeline system. Operating the hydraulic control valves to make the mobile stage truck outstretch for working, then the truck is ready to come to all function.*

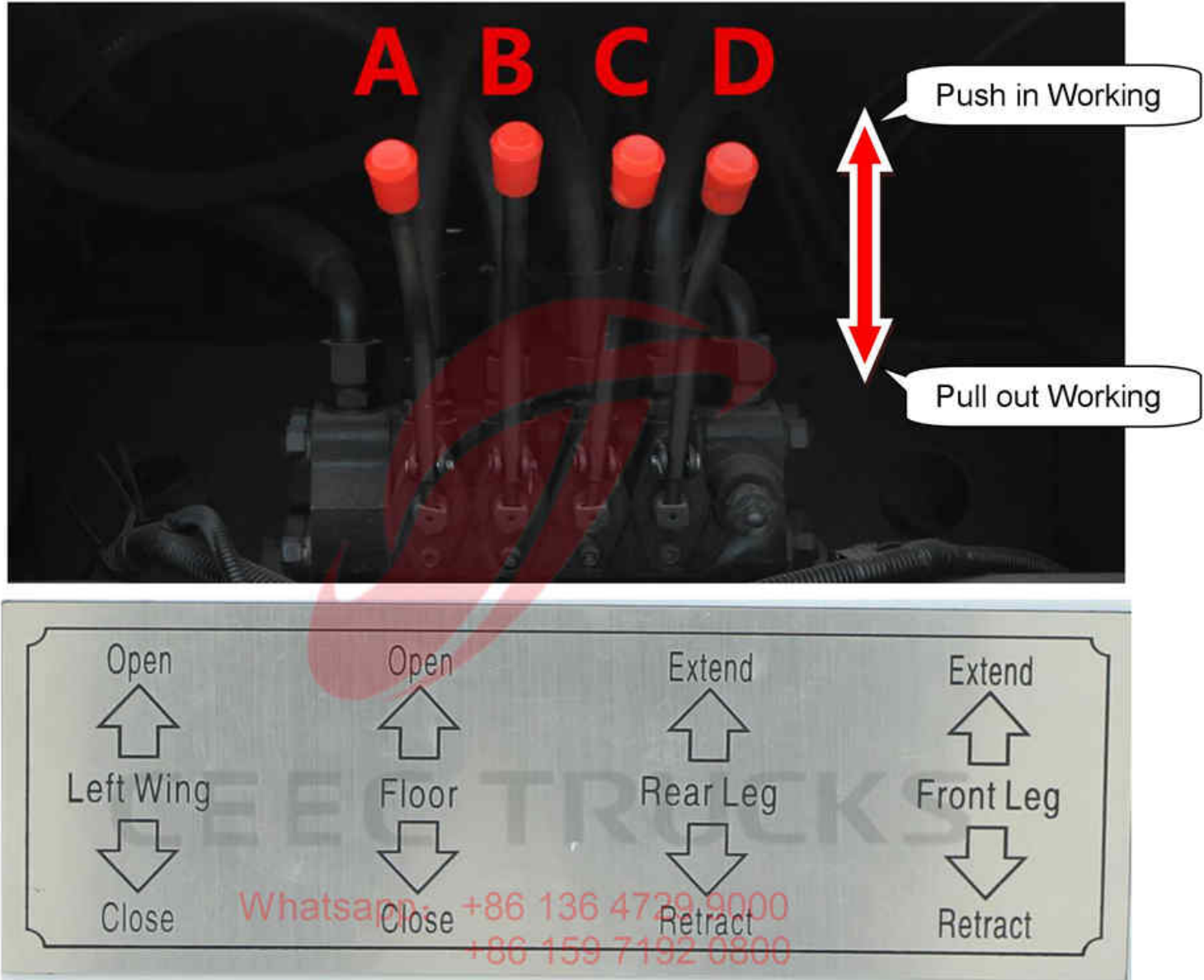
ii ,What is the main component for truck?

*The mobile stage truck is refitted based on the LHD 4*2 chassis. The refit part includes stage body assembly, actuator device and operation system.*

- *Stage body assembly: A carbon steel body with inside decorated with plank wood, which is used for stage showing.*
- *Actuator device: includes power take off, hydraulic pipelines, etc., which can pass the power from the chassis to the gear pump.*
- *Operation system: helps come to all special functions' convert.*

iii, How to operate mobile stage trucks?. (Very Important)

1. Refer to Chapter 3 and get more information about valves structure component.



Joystick **A**: Push in Working → Left Wing open

Pull out Working → Left Wing close

Joystick **B**: Push in Working → Floor stretch out

Pull out Working → Floor retract back

Joystick **C**: Push in Working → Rear Hydraulic Leg extend out for working

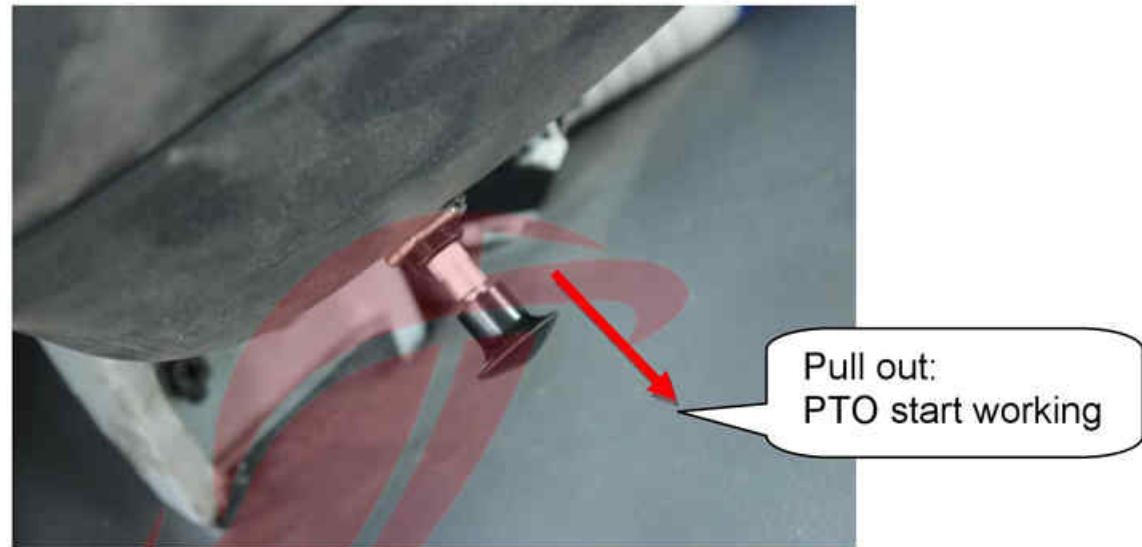
Pull out Working → Rear Hydraulic Leg retract back for driving

Joystick **D**: Push in Working → Front Hydraulic Leg extend out for working

Pull out Working → Front Hydraulic Leg retract back for driving

2. Kindly following below operation steps to use the mobile stage truck:

Before operating valves you should operating the power take off (PTO), the truck transmission gearbox should be in neutral, when the engine is idle, step on the clutch pedal and turn the PTO switch on, and then release the clutch pedal slowly. The gear pump will start operating.



a) **Operate Joystick C & D:** Push in the joystick C & D together, the front & rear hydraulic legs extend out as safety support.



b) **Operate Joystick A:** Push in the joystick A, the Left Wing open as the showing stage top, then make the manual support on right position and ready for next operation step



Operation Step as below:

Extend steps: Leg 1 → Leg 3 → Leg 2

Retract steps: Leg 2 → Leg 3 → Leg 1

c) **Operate Joystick B:** Push in the joystick B, the Floor stretched out and ready for show



The plate stretch out as stage floor

d) *Make all decorations on the stage ready for use: Ladders, safety fence, light pillars, etc*



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e) **Retract back:** *Take away all decorations, then operation as below steps, Pull out Joystick B to retract back the Floor; Pull out Joystick A to close Left Wing; Pull out Joystick C & D together to retract back the hydraulic support legs.*

Chapter 5, Others for Attention

After carefully reading the above information, you must be well known how to use the 4*2 Mobile Stage Truck; below show some troubleshooting you need to pay attention while using the truck.

| Failure | Cause | Solution |
|---|---|--|
| Oil leakage happened on oil cylinder piston rod | <ol style="list-style-type: none"> 1、 The damage of the sealing ring 2、 There are scars on the surface of the piston rod | <ol style="list-style-type: none"> 1、 Carefully exam the guide sleeve and replace the sealing ring 2、 Replace the parts. |
| Piston rod move slowly | <ol style="list-style-type: none"> 1、 Some air mixed in the hydraulic cylinder or in the hydraulic oil 2、 There are no hydraulic oil in the tank or oil level is too low to work normally. 3、 Viscosity of hydraulic oil failing standard 4、 Stoppage of the oil inlet/outlet strainer 5、 Stoppage or limiting of the hydraulic oil in system 6、 Leakage of the oil suction pipe 7、 Abrasion of the oil pump 8、 Abrasion of some parts 9、 Adjustment of the parts are not proper. 10、 Pressure valve is too dirty 11、 Overload of the system | <ol style="list-style-type: none"> 1、 Eliminate all the air 2、 Inject some hydraulic oil and carefully check the system. 3、 Replace hydraulic oil to recommended ones. 4、 Carefully clean or replace it, and find out the polluted reason 5、 Carefully check the oil pipes and clean them. 6、 Repair or replace it 7、 Repair or replace it 8、 Carefully check the pump, valve and oil cylinder, find the abrasion part and repair or replace it. 9、 Refer to the technical manual to adjust properly 10、 Carefully clean it 11、 Refer to the technical manual to load properly. |

| | | |
|---|---|--|
| | <p>work</p> <p>12、 Improper oil pipe connection</p> <p>13、 Oil pump not work</p> <p>14、 The hydraulic oil temperature is too low</p> <p>15、 The engine's revolving speed is not enough</p> | <p>12、 Reconnect the oil pipe properly</p> <p>13、 Carefully check the PTO</p> <p>14、 The viscosity is too high and should be adjust oil temperature to working level</p> <p>15、 Adjust to proper level</p> |
| Hydraulic cylinder pushing is powerless | <p>1、 Damage of the piston sealing</p> <p>2、 System pressures is too low (the overflow valve became imbalance)</p> <p>3、 Damage of the oil pump, System pressures is too low</p> <p>4、 Shortage of the hydraulic oil</p> <p>5、 Stoppage of the oil filter</p> | <p>1、 Carefully exam and replace the sealing element</p> <p>2、 Carefully exam and adjust the pressure of the overflow valve</p> <p>3、 Carefully exam and replace the oil pump</p> <p>4、 Carefully exam and fulfill the hydraulic oil</p> <p>5、 Carefully exam and replace the filter element</p> |
| Leakage of the oil pump | <p>1、 Damage of the sealing filter</p> <p>2、 The oil pipes are not sealed as required</p> | <p>1、 Carefully exam and replace the sealing ring</p> <p>2.1、 Carefully exam, tighten the joint</p> <p>2.2、 Replace the joint or add some sealant to seal the joint</p> |

| | | |
|--|---|--|
| <p>Blister exist in the hydraulic oil</p> | <ol style="list-style-type: none"> 1、 Oil level in the tank is too low 2、 There is water in the hydraulic oil 3、 Leakage of the pipe between the oil tank and the pump 4、 Hydraulic hose is kinked or squished, and limit the flow of the oil 5、 Have not choose the right hydraulic oil 6、 Abrasion of the sealing parts in oil pump axle | <ol style="list-style-type: none"> 1、 Adjust the oil to required level. Carefully exam the leakage of the system. 2、 Exchange new hydraulic oil 3、 Fasten the joint or exchange suction pipe 4、 Replace the oil pipe 5、 Exchange to the recommend oil 6、 Carefully clean or replace it. |
| <p>Oil pump is too noise while working</p> | <ol style="list-style-type: none"> 1、 The hydraulic oil viscosity is too high 2、 Speed of the oil pump is too high 3、 Suction pipe is blocked or extrusion 4、 The oil tank's respirator is blocked 5、 Primary oil filter is blocked 6、 Parts sticking to each other 7、 There are air in the hydraulic oil 8、 Hydraulic oil level is too low 9、 Parts of the oil pump is abrasion | <ol style="list-style-type: none"> 1、 Change low viscosity oil 2、 Adjust the oil pump's speed to required level. 3、 Cleaning or exchange the suction pipe 4、 Open the respirator , Carefully wash to clean it. 5、 Cleaning the filter screen 6、 Carefully repair the sticking parts, cleaning all of them, and replace when necessary 7、 Carefully check the system, replace the suction pipe and sealing parts. 8、 Adjust to proper level 9、 Repair the oil pump and find out the reason |

| | | |
|---------------------------------------|---|--|
| Leakage of oil cylinder | <ol style="list-style-type: none"> 1、 Damage of the cylinder 2、 Damage of the parts of piston valve 3、 Parts of the oil cylinder is loose 4、 Damage of the piston rod | <ol style="list-style-type: none"> 1、 Replace the cylinder and find out why it damaged 2、 repair or replace the piston valve, find out the reason 3、 Fasten the parts until no leakage 4、 Carefully exam, exchange it when necessary |
| Hydraulic oil temperature is too high | <ol style="list-style-type: none"> 1、 Use the control valve for a long time 2、 Hydraulic oil is not proper 3、 The revolving speed is high 4、 The inside leakage | <ol style="list-style-type: none"> 1、 The manual joystick should reposition when not use 2、 Exchange to proper oil 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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