

1/12 Scale Earth Digger 4200XL Hydraulic Excavator (RTR) (Version 2.0)

Part Nr. VV-JD00002



(HD Siberia bucket and sticker are not included)

International sale for heavy machinery

RC4WD

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[1]

CONTENTS

Note:

- What's included page 3
- Additional parts needed page 3
- Optional (UPGRADES) page 3
- Note page 4
- Operating Instructions and Precautions page 5

Getting started:

- Oil fill in/check oil page 6
- Power on page 7
- Lights on/off page 8
- Functions with pump and without page 9
- The custom 8 Channel 2.4 Ghz radio page 10



Excavator in action:

- Upper Arm up/down page 11
- Lower Arm up/down page 11
- Bucket grab/release page 11
- Turn left/right page 12
- Track Movement left/right page 12

Dimensions:

- Excavator model introduction page 13
- Excavator dimensions page 13
- Cabine dimensions page 13
- Track dimensions page 13
- Digging range page 13
- weight page 13

**Note:**

What's included:

- 1x RC4WD 4200XL 1/12 Scale Hydraulic excavator RTR without batteries
- 1x english or german instructions (you can download from RC4WD)



Additional parts needed:

- Hydrauliköl Viskosität HLP32 Art. Nr. LiRCW 32
- 3S 6500mAh 11.1v 20c Lipo Part # Z-E0038
- Metric Allen Wrench Tools:



Optional Upgrades

Replacement parts:

- Earth Digger 4200XL Oil Pump (VVV-S0005)
- Earth Digger 4200XL Stock Excavator Bucket (VVV-S0008)
- Earth Digger 4200XL HV Brushless ESC (VVV-S0009)
- Earth Digger 4200XL Excavator Brushless Motor (VVV-S0010)
- Earth Digger 4200XL Bagger Brushed Regler (VVV-S0011)
- Earth Digger 4200XL Gearbox Motor (15 RPM) (VVV-S0012)
- Earth Digger 4200XL Gearbox Motor (27 RPM) (VVV-S0013)
- Hydraulic Connector 90 degree) (VVV-S0015)
- Hydraulic Connector (straight Version) (VVV-S0016)
- Ventilation Sealing Unit for Hydraulic Oil Tank (VVV-S0020)
- Earth Digger 4200XL Excavator Aluminum Track (VVV-S0028)
- Hydraulik Cylinder (172mm) (VVV-S0035)
- Hydraulik Cylinder (180mm) (VVV-S0036)
- Hydraulik Cylinder (210mm) (VVV-S0037)
- Pressure Relief Valve for Earth Digger (VVV-S0041)



Tuningteile:

- Siberia Super Duty Schaufel für Earth Digger 4200XL (Z-X0005)
- Earth Digger 4200XL Decals (Z-L0041)
- Earth Digger Excavator Brushless Track Upgrade Set (VVV-S0040)
- Additional Cooler (rcw-cooler)
- [Quick Hitch for RC4WD 4200XL and add buckets](#)



Note:

This product is made for heavy duty usage. Since there is no plastic parts, its designed to last. But hydraulic pump, hoses and electronics system can break over time. Do not let the system overheat during usage. We will have all spare parts available for sell. Pump, hoses are electronics system is not covered under warranty, but we do guarantee fully functional at arrival. Each unit is full tested twice before we ship.

Each unit is professionally assembled, adjusted and tested. Do not adjust the oil pressure switch. Oil pressure will drop as you operate over time.

This Excavator is shipped without oil. You will have to fill the tank your self (Page 6), by using a funnel or tube (not included).

International

If you have at any time question about this product or using, contact support@rc4wd.com



(HD Siberia bucket and sticker are not included but can bought separately)

Operating Instructions and Precautions: (Please read carefully before starting the excavator model) :

1. After the model arrives, please unpack the wooden box and check it. If there are any damaged parts, please take photos and provide feedback in time. Carefully check the high-pressure pipe between the reversing valve and the pump, and the various pipelines output by the reversing valve. Sometimes they may become loose during transportation. Please tighten them with strong screw glue.
2. Refuel the excavator model, capacity 200-225ML steps (please refer to the excavator refueling instructions:page 6).



3. Before operating the excavator model, please carefully check the switch positions of the remote control (page 10) and the various functions (if an alarm is prompted when the remote control is turned on, please refer to the remote control manual to cancel it).
4. Remote control: FS-I6S, uses 4 No. 5 batteries, which need to be purchased separately. Power supply voltage: 12V, uses 3S lithium battery 5200MHA, (within the dimensions of 140MM length, 45MM width and 40MM height).
5. Power-on sequence: 1 Please turn on the remote control first (confirm that it has been turned on normally. If the switch position is wrong, a continuous prompt tone will be issued) 2 Connect the main power supply of the model 3 Wait for 5 seconds and hear the confirmation tone of the ESC before operation (wrong operation will cause the ESC to enter the setting mode or be damaged).
6. When walking on sandy and gravel roads, please observe whether there are hard objects such as gravel in the crawler drive groove. Please clean it in time, otherwise the walking motor will sweep the teeth.
7. Start to practice according to the operation of each switch function. Please operate step by step, otherwise the wrong operation may cause damage to the human body or the excavator.

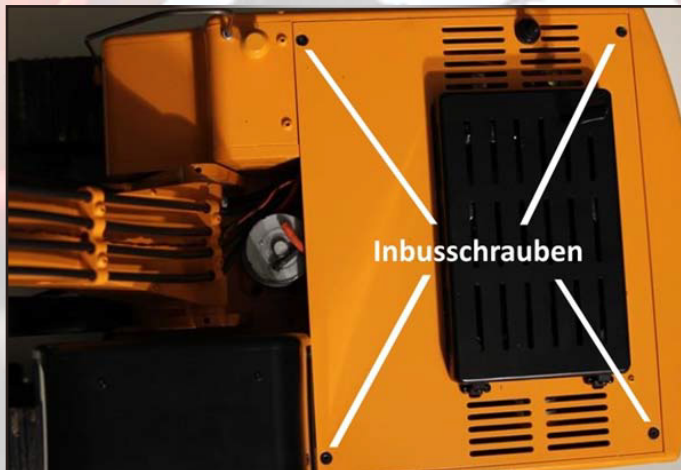
After a period of operation practice, you will experience the infinite fun that this model brings you.

Oil fill in/check oil Before you begin, you must first fill in the oil.

Caution, it is important that you use only specially Hydraulic Oil

For example Earth Digger 4200XL Hydraulic Oil VVV-S0014.

First screw the 4 Flat Head Socket Cap Screws off, you need a 2.0 metric hex driver Pic. 1

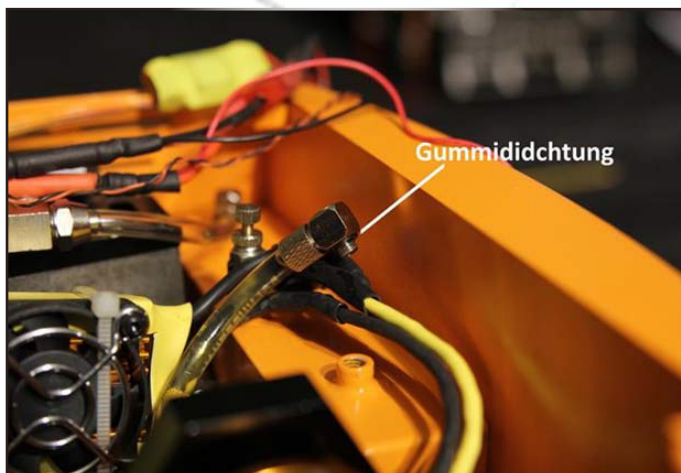


Pic.1:



Pic2:

Open the tank with a Flat head Screwdriver (Pic. 2). Attention, carefully screw off the tank and do not lose the sealing ring on the Hydraulic Connector. Pic.3



Pic.3:



Pic.4:

Now you can fill in the oil and check how much is inside with a toothpick for example. Pic 4 Do not fill more than 120ml inside. Close the tank

Power on

We advice the following batteries for use. We have reached the following times with the different type of batteries. Normally used mixed "Digger and Drive"

5300 mAh 7.4V 2S Lipo	50min
6700 mAh 7.4V 2S Lipo	70min
4500mAh 12V Nimh Akku	35min
5000mAh 11.1V 3S Lipo	40min

*Using 2S, half speed at 6.5V and shut off at 6V / Using 3S, half speed at 9.75V and shut off at 9V.

Please use a LiPo Battery Buzzer Alarm because inside the ESC are no alarm. You can place the Battery behind the cabine, fix them please with some Velcro. Pic 5/6

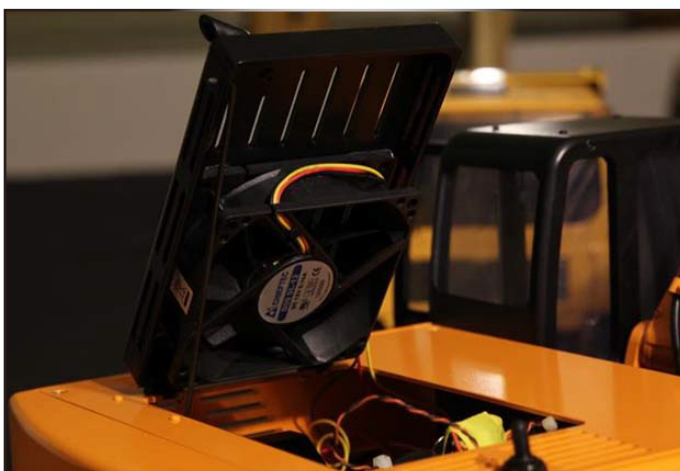


Pic. 5:

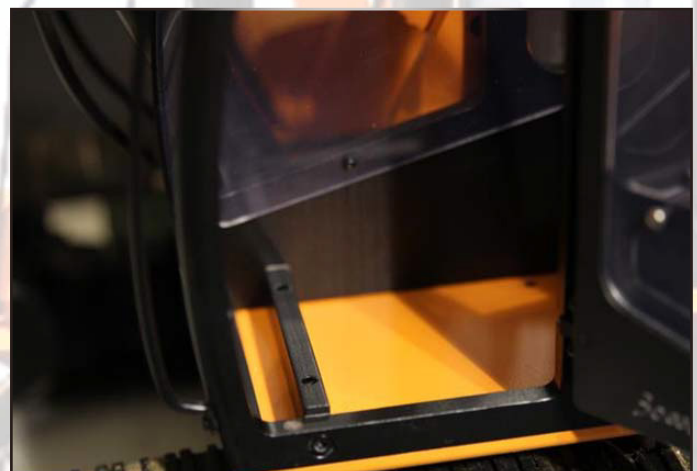


Pic. 6:

You can change the batterie over the engine cover Pic. 7(cooler optional) or you can screw off the cabine Pic. 8/6



Pic. 7:



Pic. 8:

Light on/off

You can switch on/off the lights between the engine cover Pic. 9/10



Pic. 9:

It is normally that the lights are flicker if the battery goes to the end.



Pic. 10:

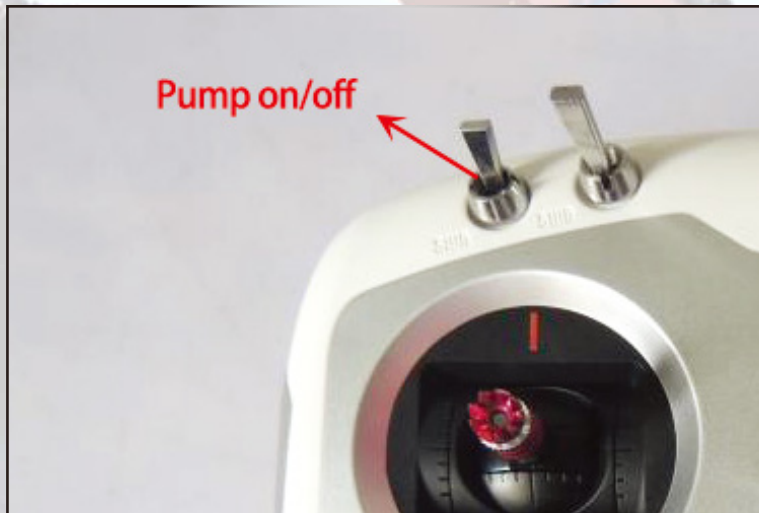


Functions oil pump with and without

Before you put the battery to the system, check, if all switches are in zero position. You can read more about this on page 10 "10 Channel Radio"

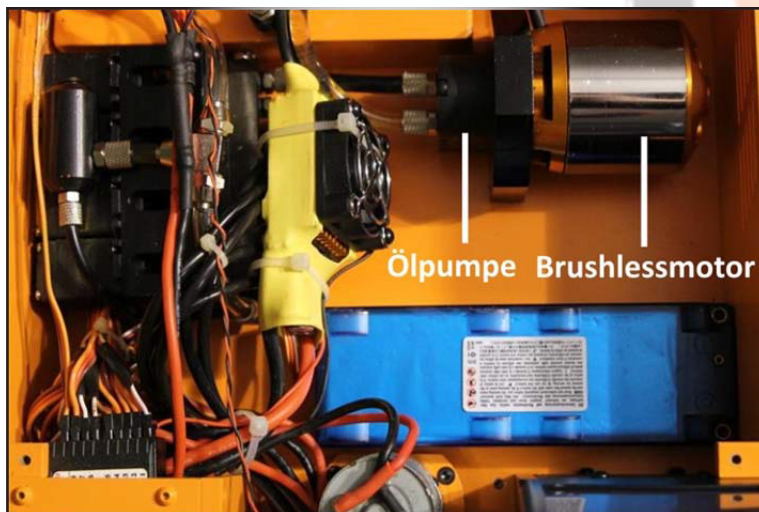
Function when oil pump is off: Drive the tracks, turn the turntable

Function when oil pump is on: you can additional use all hydraulic functions (find this on page 11)



Pic. 11:

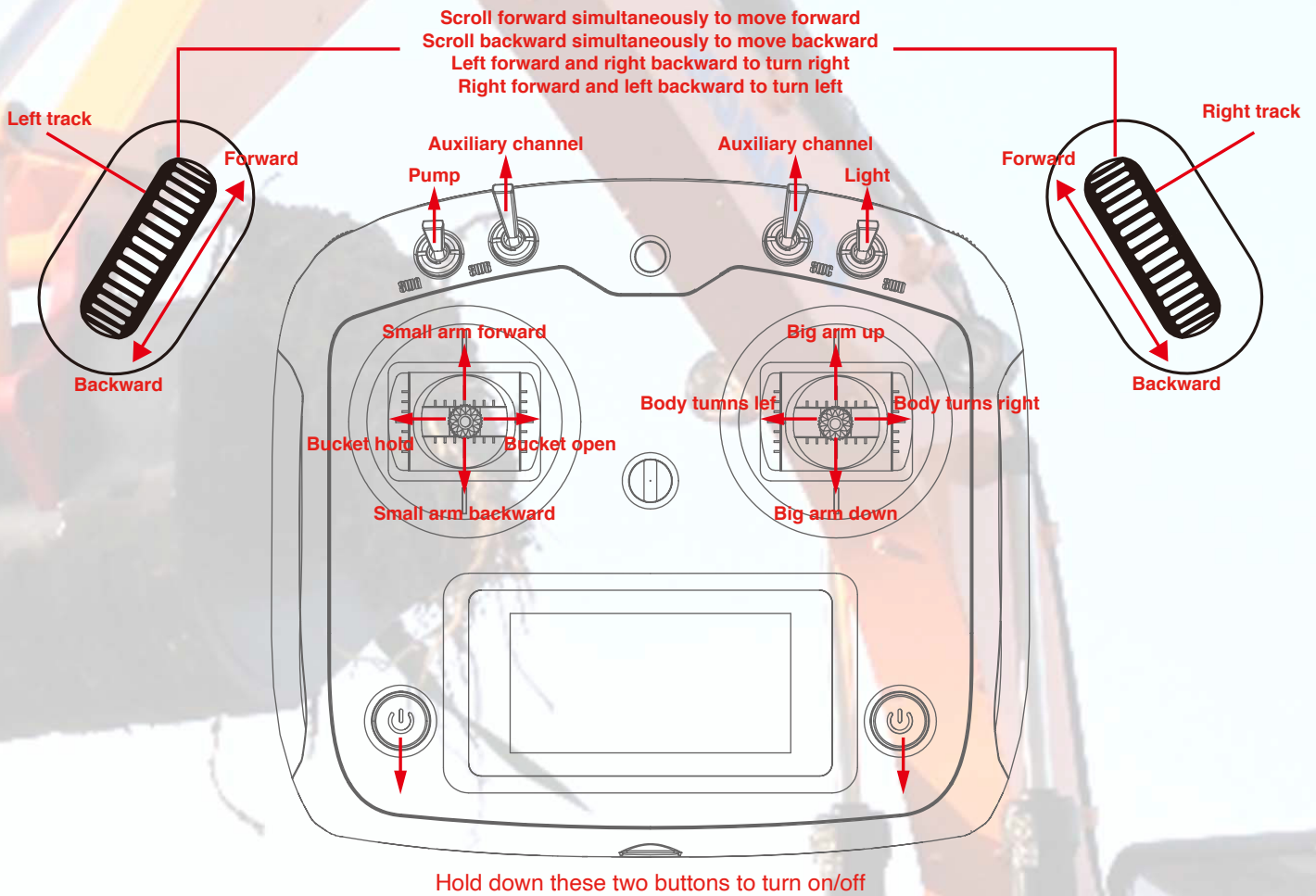
After you switch on the oil pump, the motor turns. Pic. 12



Pic. 12:



The custom 10 Channel 2.4 Ghz radio



Pic. 13:

Before you can use the radio, you must inserting 4 AA batteries (not included). You can use Lipos, too.

For example the 11,2V 3S 2200mAh Lipo

Short instructions:

- Upper Arm up/down
- Lower Arm up/down
- Bucket grab/release
- Turn left/right
- Track Movement left/right or both

Excavator in action:

Upper Arm up/down proportional and combine with other functions



Lower Arm up/down proportional and combine with other functions



Bucket grab/release proportional and combine with other functions





You can turn the turntable endless, turn the excavator on the spot. Earth Digger 4200 hydraulic excavator is the most powerful excavator available today, created for the customer who requires reliability and high production in bulk earth moving or construction projects. CNC machined metal parts, fully assembled, ready to dig!



**Excavator model introduction:**

The machine has an all-metal body and uses a brushless motor as the oil pump drive motor. The maximum pressure of the oil pump is 8MPA and the working pressure of the machine is 2.5-3.5MPA. The turntable can rotate infinitely, the tracks are operated in dual channels, the main power supply supports up to 14.8V, and a 3S lithium battery is sufficient.

Excavator dimensions

Shortest length: 830mm
Longest length: 1115mm
From the bottom to the top of the cabine: 258mm
Width over the turntable: 240mm
Length over the turntable: 350mm

Cabine dimensions

High: 160mm
Length: 140mm
Width: 78mm

Track dimensions

Length tracks complete: 373mm
Width tracks complete: 250mm
High tracks complete: 80mm
Width one track: 50mm

Digging range

Digging force: 15kg
Digging height: 780mm
Digging depth: 500mm
Radius: 700mm
Unloading height: 550mm

weight

Net weight: 19kg
Weight without battery: 18kg



Notes:

Battery Size should be within 160mm x 51mm x 73mm (L x W x H).

While some components may come assembled, it may be in your best interests to check the products to ensure all hardware is tight. In some cases you may want to apply threadlock to some of the hardware that is already installed.

ESC Supports XT60 Connector

Use good quality hex drivers to avoid stripping screw heads.

Use thread lock when putting metal screws into metal parts.

Steps marked with an asterisk (*) require thread lock.

Use thread lock sparingly.

Do not over tighten screws otherwise you may strip the thread.

