

## DK2 OPD811

# DK2 1,100 lb 48V Electric Hydraulic Dump Cart User Manual

Model: OPD811

Brand: DK2

## 1. INTRODUCTION

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This manual provides essential information for the safe operation, assembly, maintenance, and troubleshooting of your DK2 1,100 lb 48V Electric Hydraulic Dump Cart, Model OPD811. Please read this manual thoroughly before operating the equipment to ensure proper use and to prevent injury or damage.

The DK2 Electric Hydraulic Dump Cart is designed for efficient material transport, featuring a powerful 48V electric motor, a robust 1100 lb capacity, and a hydraulic electric ram for easy dumping. It is intended for outdoor use in various landscaping and construction tasks.

## 2. SAFETY INFORMATION

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**WARNING:** Failure to follow these safety instructions can result in serious injury or death.

- Always read and understand the entire manual before operating the dump cart.
- Wear appropriate personal protective equipment (PPE), including safety glasses, gloves, and sturdy footwear.
- Keep hands, feet, and clothing clear of moving parts, especially during operation and dumping.
- Do not exceed the maximum weight capacity of 1100 lbs (500 kg). Overloading can cause instability and damage.
- Operate the cart on level ground whenever possible. Exercise extreme caution on slopes.
- Ensure the area is clear of bystanders, children, and pets before operating.
- Do not operate the cart under the influence of drugs, alcohol, or medication that may impair judgment.
- Always turn off the power and remove the key (if applicable) before performing any maintenance or adjustments.
- Use only the specified 48V 20AH batteries and charger. Improper charging or battery use can lead to fire or explosion.
- Keep all electrical connections clean and dry.
- Inspect the cart for damage or loose parts before each use. Do not operate if damaged.

## 3. PRODUCT OVERVIEW

The DK2 Electric Hydraulic Dump Cart is designed for robust performance and ease of use. Familiarize yourself with its main components.



Figure 3.1: Overall view of the DK2 Electric Hydraulic Dump Cart. This image shows the main body, orange dump bucket, handlebars, and wheels.



Figure 3.2: Side view of the dump cart, highlighting the orange bucket, black frame, and pneumatic wheels.

### Key Components:

- **Dump Bucket:** Large capacity, sealed bucket for transporting materials. An additional carry-all bucket is included.
- **Handlebars:** Ergonomically designed for control and maneuverability.
- **Control Panel:** Houses the main power switch, speed controls, and hydraulic lift controls.
- **48V Battery Compartment:** Contains the rechargeable 48V 20AH batteries.
- **Hydraulic Electric Ram:** Powers the tilting mechanism of the dump bucket.
- **Drive Wheels:** Two large pneumatic wheels provide traction and propulsion.
- **Caster Wheels:** Two smaller pneumatic swivel wheels at the front for steering and stability.
- **Alloy Steel Frame:** Durable and robust frame construction.

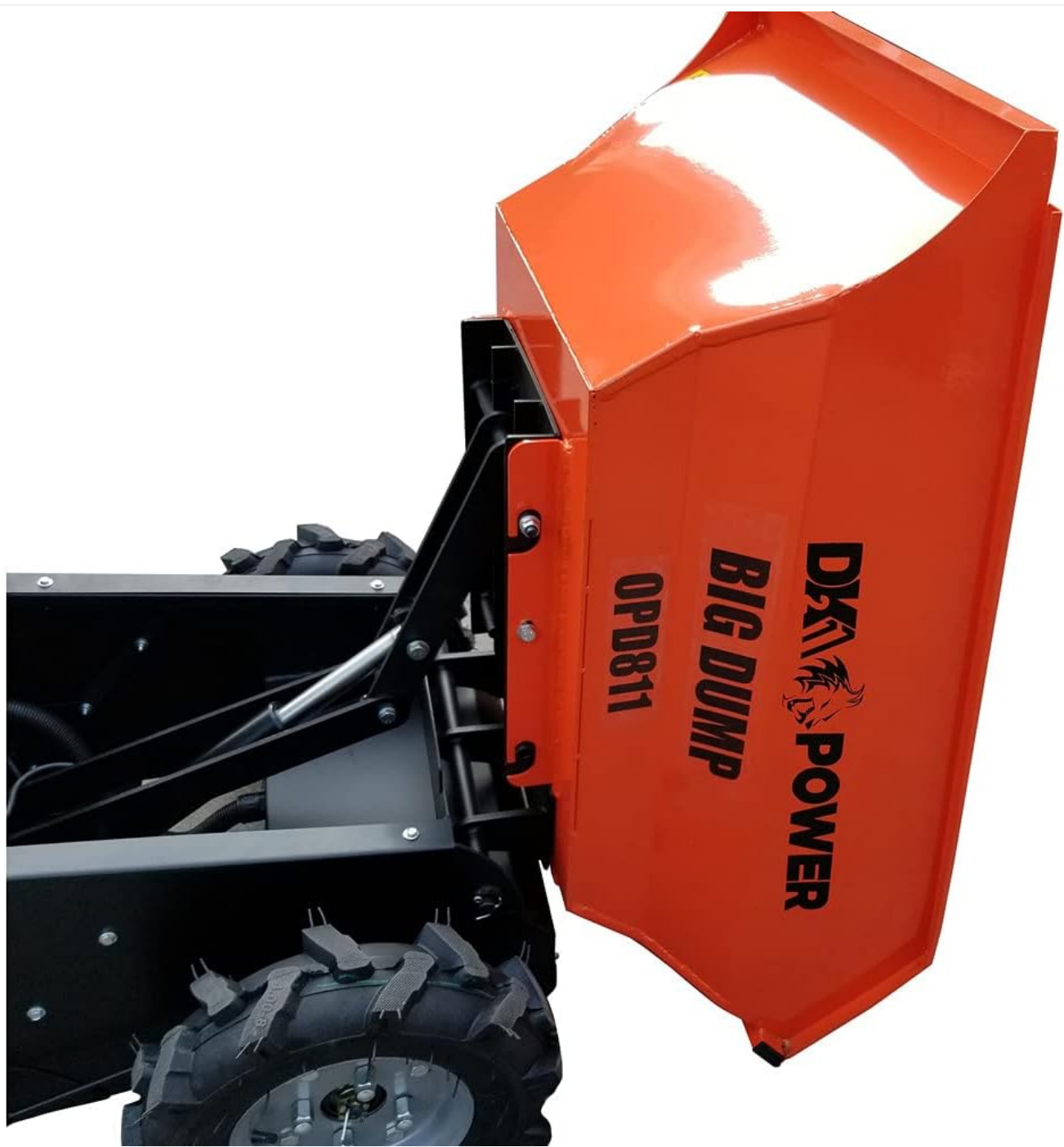


Figure 3.3: Close-up view of the control panel, showing the main power switch and various safety warning labels.



Figure 3.4: Detail of the front pneumatic caster wheels, which allow for easy steering.



Figure 3.5: Detail of the rear pneumatic drive wheels and the robust alloy steel frame structure.

## 4. SETUP AND ASSEMBLY

The DK2 Electric Hydraulic Dump Cart requires some assembly. Follow these general steps for initial setup.

## 4.1 Unpacking and Inspection

1. Carefully remove all components from the packaging.
2. Inspect all parts for any shipping damage. Contact customer support immediately if damage is found.
3. Verify that all components listed in the packing list (not provided in this manual) are present.

## 4.2 Assembly Steps (General)

1. Attach the handlebars to the main frame using the provided hardware. Ensure all bolts are securely tightened.
2. Install the front caster wheels and rear drive wheels. Ensure tires are properly inflated to the recommended pressure (refer to tire sidewall for details).
3. Connect any remaining electrical cables as indicated in the full assembly guide (not provided in this manual).
4. Ensure the dump bucket is correctly seated and the hydraulic ram is properly connected.

## 4.3 Battery Installation and Initial Charge

- Locate the 48V 20AH batteries and the battery compartment.
- Install the batteries according to the polarity markings.
- Connect the charger to the charging port and a standard electrical outlet.
- Allow the batteries to charge for approximately 5 hours for a full charge before first use.
- A fully charged battery provides an average runtime of 6 hours, depending on load and terrain.

# 5. OPERATING INSTRUCTIONS

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Follow these steps for safe and effective operation of your dump cart.

## 5.1 Pre-Operation Check

- Ensure batteries are fully charged.
- Check tire pressure.
- Verify all fasteners are tight.
- Confirm the dump bucket is securely latched in the transport position.

## 5.2 Starting and Driving

1. Insert the key into the ignition (if applicable) and turn the main power switch to the "ON" position.
2. Use the throttle control on the handlebars to adjust speed. The maximum speed is 6 MPH.
3. Steer the cart using the handlebars and front caster wheels.
4. Apply brakes as needed to slow down or stop.

## 5.3 Loading and Dumping

- Load materials evenly into the dump bucket, ensuring not to exceed the 1100 lb capacity.
- Position the cart at the desired dumping location.
- Engage the hydraulic lift control to raise the dump bucket.
- Once materials are discharged, lower the dump bucket using the hydraulic control until it latches securely in the transport position.



Figure 5.1: The dump cart with its bucket fully tilted upwards, demonstrating the hydraulic dumping mechanism.



Figure 5.2: A closer view of the hydraulic electric ram extending to lift the dump bucket.

## 6. MAINTENANCE

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Regular maintenance ensures the longevity and safe operation of your dump cart.

## 6.1 Battery Care

- Always recharge batteries after each use.
- Store the cart with fully charged batteries in a cool, dry place if not used for extended periods.
- Do not expose batteries to extreme temperatures.
- Inspect battery terminals for corrosion and clean as necessary.

## 6.2 General Cleaning and Inspection

- Clean the dump cart after each use, especially the bucket, to prevent material buildup.
- Inspect all moving parts, including wheels, axles, and hydraulic components, for wear or damage.
- Check all bolts and nuts for tightness and re-tighten as needed.
- Lubricate pivot points and moving parts periodically with appropriate grease or oil.

## 7. TROUBLESHOOTING

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This section addresses common issues you might encounter with your dump cart.

Problem	Possible Cause	Solution
Cart does not power on.	Main power switch is off; Batteries are discharged; Loose battery connection.	Turn on the main power switch; Charge the batteries; Check and secure battery connections.
Wheels do not move.	Batteries are low or discharged; Motor issue; Control panel malfunction.	Recharge batteries; If problem persists, contact customer support.
Hydraulic lift not working.	Low battery power; Hydraulic fluid level low; Hydraulic pump issue.	Charge batteries; Check hydraulic fluid (refer to full service manual); Contact customer support.
Reduced runtime.	Batteries not fully charged; Old or worn batteries; Operating in heavy load conditions.	Ensure full charge; Consider battery replacement if old; Reduce load or operating time.

For issues not covered in this section, or if troubleshooting steps do not resolve the problem, please contact DK2 customer support.

## 8. SPECIFICATIONS

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- **Model:** OPD811
- **Brand:** DK2
- **Product Dimensions:** 60"D x 40"W x 40"H
- **Material:** Alloy Steel (Frame, Handle)
- **Color:** Orange
- **Recommended Uses:** Outdoor
- **Item Weight:** 616 Pounds
- **Weight Limit:** 1100 Pounds (500 kg)
- **Number of Wheels:** 2 Drive Wheels, 2 Caster Wheels (Pneumatic)
- **Assembly Required:** Yes
- **Battery:** 48V 20AH (Included)

- **Charge Time:** Approximately 5 hours
- **Runtime:** Average 6 hours
- **Max Speed:** 6 MPH
- **Dumping Mechanism:** Hydraulic Electric Ram
- **UPC:** 826518005722
- **ASIN:** B07V58DH65
- **Date First Available:** July 9, 2019

## 9. WARRANTY AND SUPPORT

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DK2 products are designed for durability and performance. For warranty claims or technical assistance, please contact the manufacturer directly.

- **Returns:** This product may be eligible for a 30-day easy return policy. Please refer to your purchase documentation for specific return instructions.
- **Customer Support:** For technical support, parts, or warranty inquiries, please contact DK2 customer service. Contact information can typically be found on the manufacturer's official website or in the packaging materials.
- **Manufacturer:** DK2