



Kids Ride-On Excavator



User Manual

[Revision 4.0 May 2020]

READ THIS MANUAL CAREFULLY BEFORE USE – FAILURE TO DO SO MAY RESULT IN INJURY, PROPERTY DAMAGE AND MAY VOID WARRANTY. • KEEP THIS MANUAL FOR FUTURE REFERENCE. • Products covered by this manual may vary in appearance, assembly, inclusions, specifications, description and packaging.

THE BATTERY MAY HAVE SOME CHARGE ON ARRIVAL, IT IS IMPORTANT HOWEVER THAT THE BATTERY IS CHARGED PRIOR TO USE.

Safety

Safety messages are designed to alert you to possible dangers or hazards that could cause death, injury or equipment or property damage if not understood or followed. Safety messages have the following symbols:



You **WILL** be KILLED or SERIOUSLY INJURED if you do not follow instructions.

It is vital that you read and understand this user manual before using the product, including safety warnings, and any assembly and operating instructions. Keep the manual for future reference.

Safety precautions and recommendations detailed here must be fully understood and followed to reduce the risk of injury, fire, explosion, electrical hazard, and/or property damage.

Safety information presented here is generic in nature – some advice may not be applicable to every product. The term "equipment" refers to the product, be it electrical mains powered, battery powered or combustion engine powered.

- **Before Use** - If you are not familiar with the safe operation/handling of the equipment or are in any way unsure of any aspect of suitability or correct use for your application, you should complete training conducted by a person or organization qualified in safe use and operation of this equipment, including fuel/electrical handling and safety.
- Do NOT operate the equipment in flammable or explosive environments, such as in the presence of flammable liquids, gases or dust. The equipment may create sparks or heat that may ignite flammable substances.
- Keep clear of moving parts.
- Equipment may be a potential source of electric shock or injury if misused.
- Do NOT operate the equipment if it is damaged, malfunctioning or is in an excessively worn state.
- Do NOT allow others to use the equipment unless they have read this manual and are adequately trained.
- Keep packaging away from children - risk of suffocation! Operators must use the equipment correctly. When using the equipment, consider conditions and pay due care to persons and property.

General Work Area Safety

- Work areas should be clean and well lit.
- Do not operate the equipment if bystanders, animals etc are within operating range of the equipment or the general work area.
- If devices are provided for connecting dust extraction / collection facilities, ensure these are connected and used properly. Dust collection can reduce dust-related hazards.



You **CAN** be KILLED or SERIOUSLY INJURED if you do not follow instructions.

General Personal Safety

- Wear appropriate protective equipment when operating, servicing, or when in the operating area of the equipment to help protect from eye and ear injury, poisoning, burns, cutting and crush injuries. Protective equipment such as safety goggles, respirators, non-slip safety footwear, hard hat, hearing protection etc should be used for appropriate equipment / conditions. Other people nearby should also wear appropriate personal protective equipment. Do not wear loose clothing or jewellery, which can be caught in moving parts. Keep hair and clothing away from the equipment.
- Stay alert and use common sense when operating the equipment. Do not over-reach. Always maintain secure footing and balance.
- Do not use the equipment if tired or under the influence of drugs, alcohol or medication.
- This equipment is not intended for use by persons with reduced physical, sensory or mental capabilities.

General Fuel Safety

- Petrol/fuel/gasoline is extremely flammable – keep clear of naked flames or other ignition sources.
- Do not spill fuel. If you spill fuel, wipe it off the equipment immediately – if fuel gets on your clothing, change clothing.
- Do NOT smoke near fuel or when refuelling.
- Always shut off the engine before refuelling.
- Do NOT refuel a hot engine.
- Open the fuel cap carefully to allow any pressure build-up in the tank to release slowly.
- Always refuel in well ventilated areas.
- Always check for fuel leakage. If fuel leakage is found, do not start or run the engine until all leaks are fixed.

General Carbon-Monoxide Safety

- Using a combustion engine indoors **CAN KILL IN MINUTES**. Engine exhaust contains carbon-monoxide – a poison you cannot smell or see.
- Use combustion engines OUTSIDE only, and far away from windows, doors and vents.



You **CAN** be INJURED if you do not follow instructions or equipment damage may occur.

General Equipment Use and Care

- The equipment is designed for domestic use only.
- Handle the equipment safely and carefully.
- Before use, inspect the equipment for misalignment or binding of moving parts, loose components, damage or any other condition that may affect its operation. If damaged, have the equipment repaired by an authorised service centre or technician before use.
- Prevent unintentional starting of the equipment - ensure equipment and power switches are in the OFF position before connecting or moving equipment. Do not carry equipment with hands or fingers touching any controls. Remove any tools or other items that are not a part of the equipment from it before starting or switching on.
- Do not force the equipment. Use the correct equipment for your application. Equipment will perform better and be safer when used within its design and usage parameters.
- Use the equipment and accessories etc. in accordance with these instructions, considering working conditions and the work to be performed. Using the equipment for operations different from those intended could result in hazardous situations.
- Always keep equipment components (engines, hoses, handles, controls, frames, housings, guards etc) and accessories (cutting tools, nozzles, bits etc) properly maintained. Keep the equipment clean and, where applicable, properly lubricated.
- Store the equipment out of reach of children or untrained persons. To avoid burns or fire hazards, let the equipment cool completely before transporting or storing. Never place or store the equipment near flammable materials, combustible gases or liquids etc.
- The equipment is not weather-proof, and should not be stored in direct sunlight, at high ambient temperatures or locations that are damp or humid.
- Do not clean equipment with solvents, flammable liquids or harsh abrasives.
- For specific equipment safety use and care, see Equipment Safety.





















General Electrical Safety	General Electrical Safety	General Service Information
<ul style="list-style-type: none"> Inspect electrical equipment, extension cords, power bars, and electrical fittings for damage or wear before each use. Repair or replace damaged equipment immediately. Ensure all power sources conform to equipment voltage requirements and are disconnected before connecting or disconnecting equipment. When wiring electrically powered equipment, follow all electrical and safety codes. Wherever possible, use a residual current device (RCD). High voltage / high current power lines may be present. Use extreme caution to avoid contact or interference with power lines. Electrical shock can be fatal. 	<ul style="list-style-type: none"> Electrically grounded equipment must have an approved cord and plug and be connected to a grounded electrical outlet. Do NOT bypass the ON/OFF switch and operate equipment by connecting and disconnecting the electrical cord. Do NOT use equipment that has exposed wiring, damaged switches, covers or guards. Do NOT use electrical equipment in wet conditions or in damp locations. Do NOT use electrical cords to lift, move or carry equipment. Do NOT coil or knot electrical cords, and ensure electrical cords are not trip hazards. 	<ul style="list-style-type: none"> The equipment must be serviced or repaired at authorised service centres by qualified personnel only. Replacement parts must be original equipment manufacturer (OEM) to ensure equipment safety is maintained. Do NOT attempt any maintenance or repair work not described in this manual. After use, the equipment and components may still be hot – allow the equipment to cool and disconnect spark plugs and/or electrical power sources and/or batteries from it before adjusting, changing accessories or performing repair or maintenance. Do NOT adjust while the equipment is running. Perform service related activities in suitable conditions, such as a workshop. Replace worn, damaged or missing warning/safety labels immediately.

Ride-On Safety

- WEIGHT LIMIT: 25kg**
- This product is suitable only for 3 – 8 year old children.
- The assembling and charging process should only be done by adults.
- Before use, please check whether all the part are installed properly and connected securely.
- This excavator cannot be used on dangerous places like streets, roads, slopes and raceways. Sparking could occur when starting the excavator. Avoid using the toy in gas stations and other fire-hazard locations.
- This excavator should only be used under an adult's supervision.
- Do not change the internal structure, wire lines and additional electrical devices of the excavator without permission and guidance from a qualified personnel.
- Do not switch the forward/backward button frequently.
- Examine the product and charger regularly to see whether the parts are becoming old or damaged. When damage is found, discontinue using them until they are either fixed or replaced.
- Only rechargeable batteries can be used.
- Batteries should be positioned in the right polarities.
- Rechargeable batteries should be removed before disposal.
- Positive and negative poles short circuit is not allowed.
- Rechargeable batteries should only be charged by adults; when using this excavator, the distance between the excavator and an adult should not be more than 10 meters.
- Children should not stand in the excavator.
- Children should wear shoes while operating the excavator.
- The excavator is outfitted with a seat belt. Make sure the child has securely fastened the seatbelt around herself.
- Do not drive in narrow spaces to avoid damaging the excavator.
- Periodically inspect the physical condition of the ride-on excavator and its accessories for signs of damages.
- Keep the excavator away from fires and other strong sources of heat.
- Use only a soft, damp cloth to clean the excavator. DO NOT use water or chemical detergents.
- Remove the batteries when the ride-on excavator will not be used for an extended time.
- New/Old and different kinds of batteries cannot be used together.
- The charger and battery are not toys. Children should not be allowed to play with them.
- Before charging the battery, check for any damages on the power cord and plug. If there are damages, DO NOT use the charger or battery.
- Store the plastic packaging carefully after installation. Keep away from children. Choking hazard!
- Warning!** when changing gears, please make sure the excavator has completely stopped. Otherwise, the gear case and motor will be damaged.

Safety Symbols

The product may have safety warning labels attached to it, explained below. Understand the symbols on your product and their meanings. If any stickers become unreadable, unattached etc., replace them.

 <p>Flammable Material Hazard Flammable liquids, gases or substances etc may present. Avoid ignition sources and open flames. Danger of fire.</p>	 <p>Read User Manual Read and fully understand product safety warnings, operation, procedures etc before using the product.</p>	 <p>Use Hand Protection Wear appropriate hand protection and take due care as the product or use of the product may present hand hazards.</p>	 <p>Carbon-Monoxide Hazard Do not use the product in confined areas or without adequate ventilation. Carbon-monoxide poisoning can be fatal.</p>
 <p>Electrocution / Electrical Shock Hazard High voltage or high current electricity may be present or required by the product. Take due care when handling electrical products, cables, plugs and leads. Electrical shock can be fatal.</p>	 <p>Toxic Fumes / Dust Hazard Using the product or by-products from use may produce fumes, smoke or particles that could be harmful if inhaled. Wear appropriate breathing protection and have adequate ventilation.</p>	 <p>Explosive Material Hazard Combustible liquids, gases or substances etc may be present. Avoid ignition sources and open flames. Danger of explosion.</p>	 <p>Cutting / Amputation Hazard The product may have blades, edges or mechanical devices that can cause severe cut injury to fingers, limbs etc. Take due care when handling and using the product.</p>
 <p>Crush Hazard The product may have blades, edges or mechanical devices that can cause severe crush injury to fingers, limbs etc. Take due care when handling and using the product.</p>	 <p>Single Operator Only The product must be operated by a single person only. More than one person operating the product may introduce additional hazards.</p>	 <p>Use Face Protection Wear appropriate full-face protection and take due care as the product or use of the product may present face and eye hazards.</p>	 <p>Use Foot Protection Wear appropriate foot protection and take due care as the product or use of the product may present foot hazards.</p>
 <p>Use Eye / Ear / Head Protection Wear appropriate eye and / or ear and / or head protection and take due care as the product or use of the product may present eye, hearing and head hazards.</p>	 <p>Running Hazard Do not run on or near the product as doing so may present a fall hazard.</p>	 <p>Diving Hazard Do not dive into the product as doing so may present a neck / head injury hazard.</p>	 <p>Adult Supervision Required Always supervise children and other users of a product to prevent drowning or injury.</p>
 <p>Skin Penetration / Puncture Hazard The product may produce pressure, emit liquids or objects that can cause severe injury to fingers, limbs, blood etc. Take due care when handling and using the product.</p>	 <p>Hot Surface Hazard Be aware that the product may produce high temperatures and hot surfaces that can cause burn injuries.</p>	 <p>Flying Debris Hazard Be aware that the product or use of the product may present hazards produced by flying debris. Wear appropriate clothing and protective devices.</p>	 <p>Moving Parts Hazard Be aware that the product contains or uses mechanical devices that move or rotate. Always wait for moving parts to stop fully before handling the product, adjusting, maintenance etc.</p>


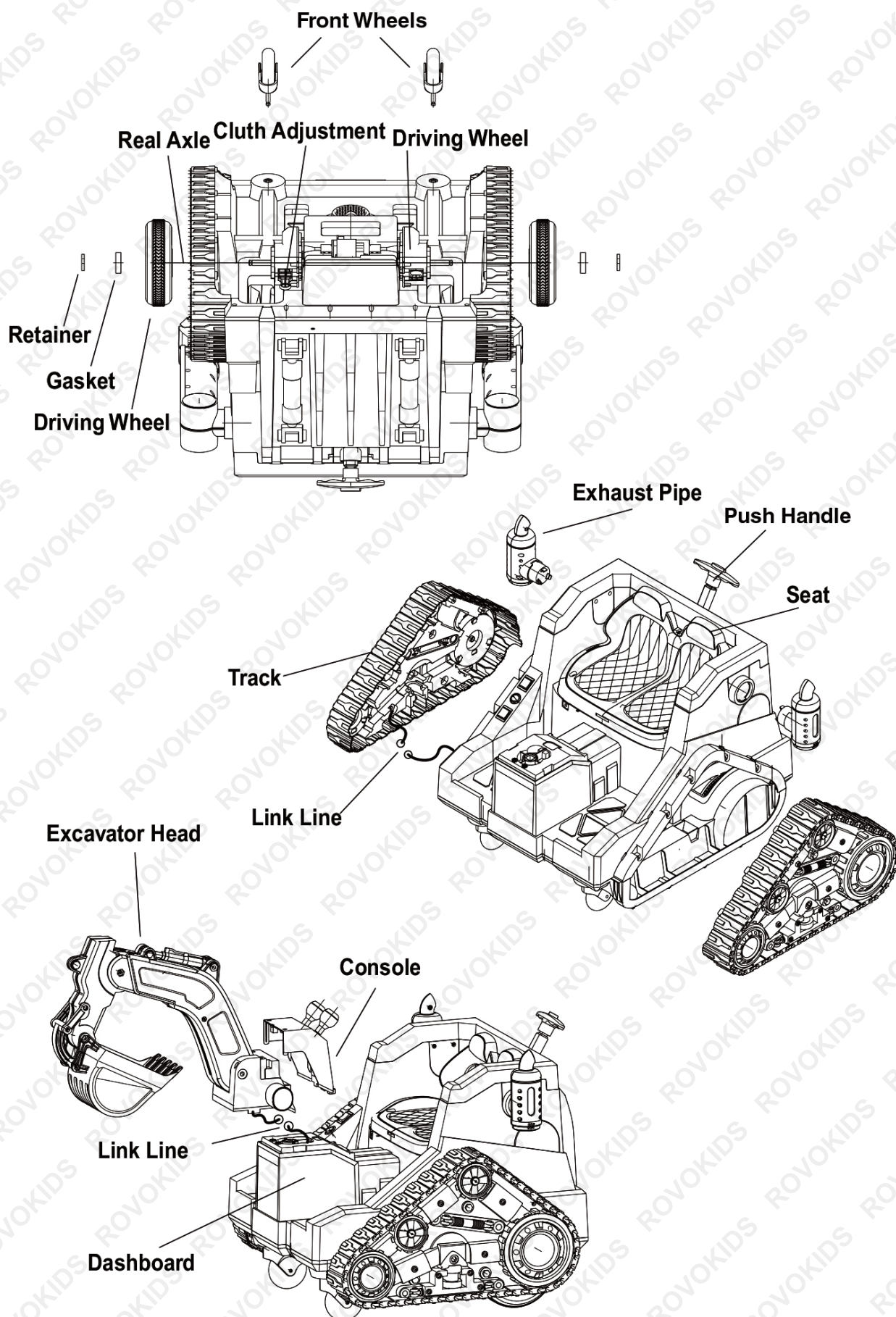
 <p>Carbon-Monoxide Hazard Do not use the product in confined areas or without adequate ventilation. Carbon-monoxide poisoning can be fatal.</p>	 <p>Pull Hazard Be aware that the product contains or uses mechanical devices that can pull in objects and can cause severe injury to fingers, limbs etc. Take due care when handling and using the product.</p>	 <p>Slope / Fall Injury Hazard Be aware that using the product on sloping surfaces or in slippery conditions may present additional dangers from falls and contact with blades, moving parts, hot surfaces etc.</p>	 <p>"Slam Dunk" Warning Do NOT attempt "slam dunk" manoeuvres as this may result in severe injury due to falling, product breakage or collapse etc.</p>
 <p>Electrocution / Electrical Shock Hazard - Outdoor High voltage or high current electricity may be present or required by the product. Do NOT use in rain, damp or wet conditions. Electrical shock can be fatal.</p>	 <p>Electrocution / Electrical Shock Hazard - Disconnect High voltage or high current electricity may be present or required by the product. Always disconnect the product from the electrical supply before handling the product, adjusting, maintenance etc.</p>	 <p>Power Line Electrocution Hazard High voltage / high current power lines may be present. Use extreme caution to avoid contact or interference with power lines. Electrical shock can be fatal.</p>	 <p>"Kick-Back" Hazard High level of "kick-back" hazard that can cause the machine to suddenly rotate towards operator. Kick-back injury can be fatal.</p>
 <p>Winch Operator Position Hazard Do NOT stand between winch and load. Do NOT use winch to move people.</p>	 <p>Winch Lift Hazard Do NOT LIFT load vertically. Use machine to PULL only.</p>	 <p>Cable Hazard Ensure that load bearing cable is not kinked or knotted.</p>	 <p>Winch Cable Hazard Ensure that there is a minimum number of cable coils on winching mechanism.</p>
 <p>Winch Hook Hazard Carry hook to load – do NOT throw or run.</p>	 <p>Flash / Blinding Hazard Wear appropriate eye protection for welding. Direct exposure to weld arcs may cause permanent eye injury.</p>	 <p>Laser Hazard Laser may be in use – do NOT look directly at laser or allow others to.</p>	



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Parts Identification



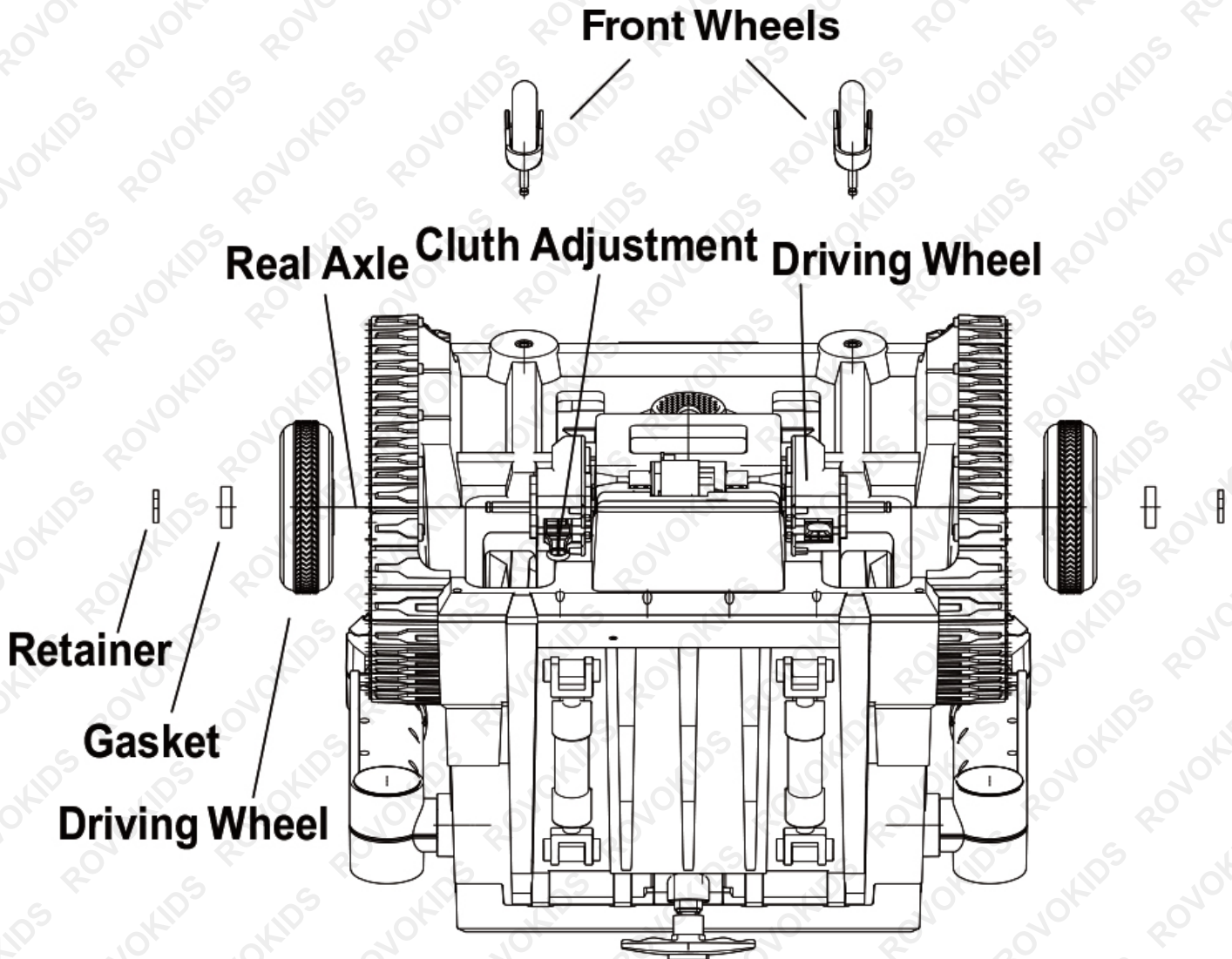
No.	Name	No.	Name
1	Excavator body x 1	7	Remote control x 1
2	Front wheels x 2	8	Seat x 1
3	Driving wheels x 2	9	Rear axle x 1
4	Battery charger x 1	10	Tracks x 2
5	Excavator head x 1	11	Kits x 1
6	Battery x 1		

Assembly

Video Tutorial:
[Assembly Guide](#)

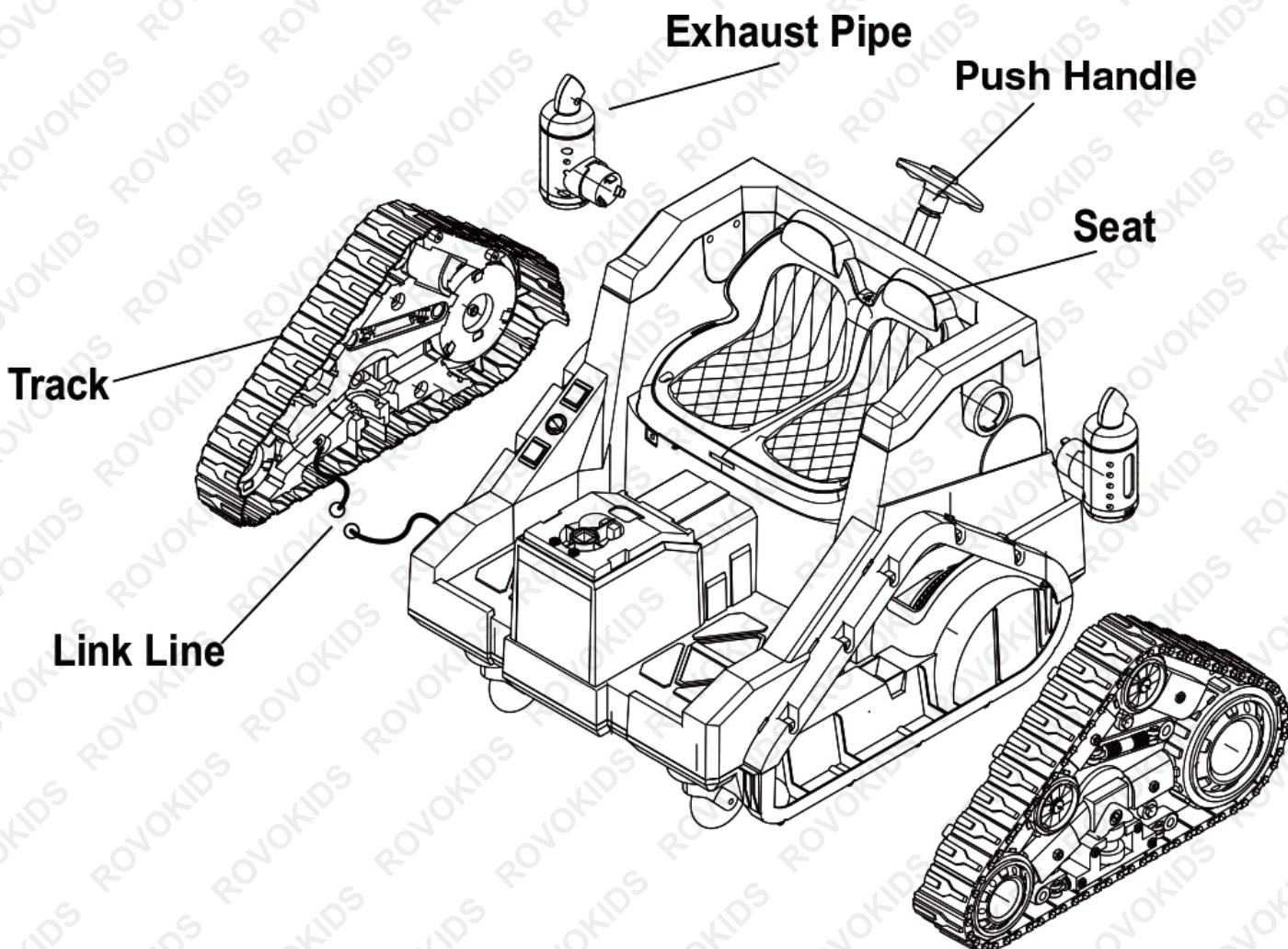


Attaching the Wheels



1. The two front steering wheels should be aligned with the corresponding spaces at the front section of the excavator body. Install and secure them to complete the installation.
2. The rear driving wheels should be installed at both ends of the rear axle, each with a gasket. They can also be installed with the retainer.

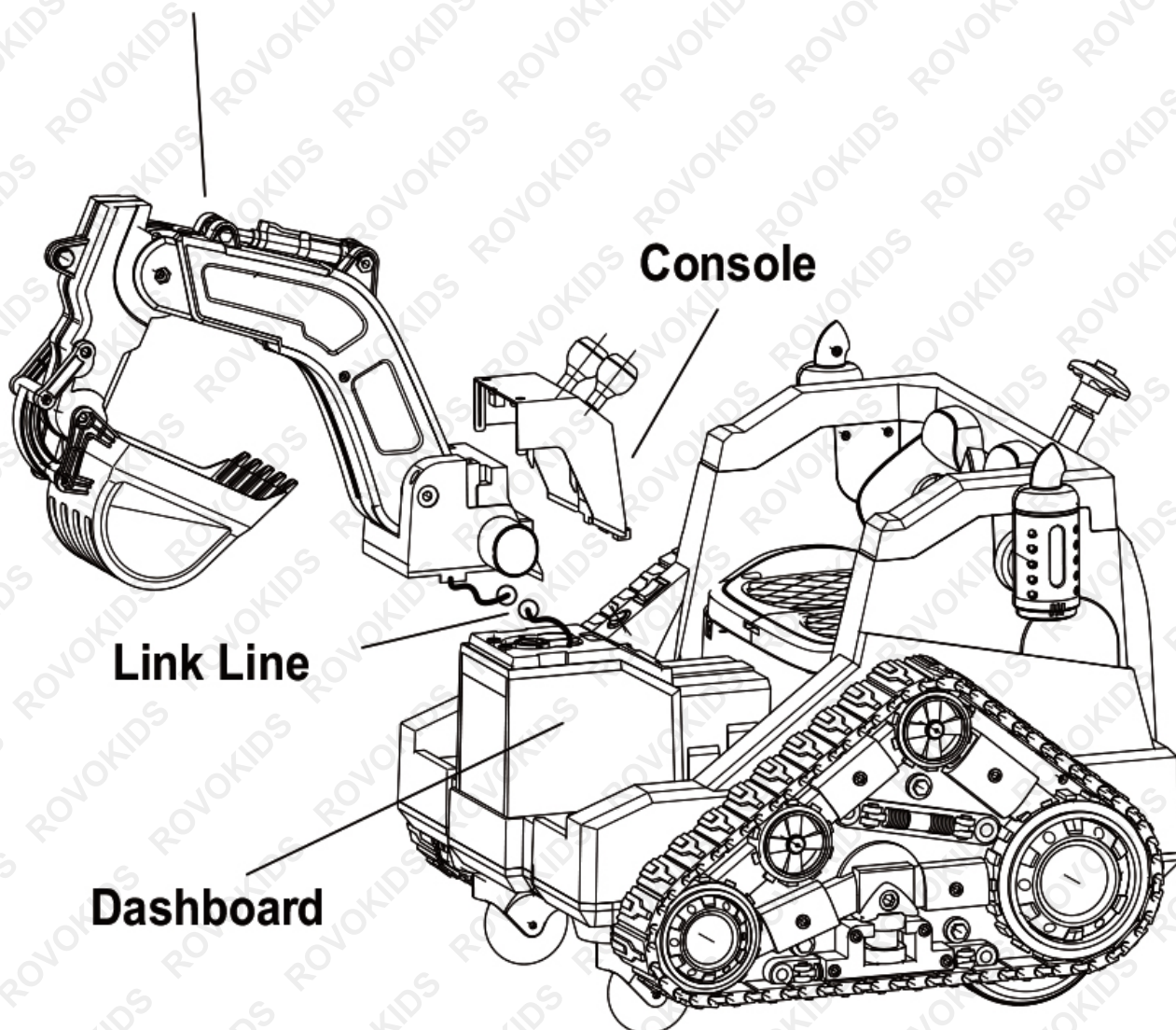
Mounting the Tracks



1. Connect the caterpillar track wire to the body light (red to red, black to black).
2. Assemble the caterpillar with the body and lock it with a 4*12 screw (left and right carriages). See Figure 2.
3. Insert the exhaust pipe into the corresponding position on the side of the body.

Attaching the Excavator Head

Excavator Head



1. Connect the head link line to the body connection line (black to black, orange to orange).
2. The excavator head is installed onto the corresponding position on the instrument panel and can be installed by locking it with 3.5*12 screws.
3. Install the console onto the corresponding position on the excavator head and lock it with a 4*12 screwdriver.

Operation

Before First Use




- Before using the excavator for the first time, take a look at the back of the excavator. Under the seat, connect the black plug on the battery with the black plug on the main body (ensuring first that the battery has been positioned in the correct polarities).
- The charging socket is located at the right side of the excavator. When using it, please open the cover of the charging socket and plug in the charger in a regular household electric outlet. The other end should be connected to the charging socket on the body of the excavator.
- Charge the battery first for 8 – 10 hours, but no more than 12 hours. Excessive charging of the battery can permanently damage it.
- Recharge the battery immediately after 1 – 2 hours of use. Charge the battery for 8 – 10 hours, but no more than 12 hours.
- When operating the excavator at a slower than normal speed, please recharge the battery in a timely manner for 8 – 12 hours.
- If the excavator will not be used for a short period of time, please fully charge the battery and unplug the charging and power plugs. If the excavator will not be used for an extended period, ensure that you recharge the battery once every three months to preserve and extend the battery life.
- While charging the battery, the charger will heat up and produce occasional noises and the battery will also be hot. These are normal and should not be a cause for concern.
- This excavator has a four-way remote control motion function and digging machine function:
 - Turn off the main power switch, press and hold the code key on the remote transmitter to turn on the main power, and all the LED lights on the remote control will flash. This means that the code is successful.
 - Use the remote control to control the forward, backward, right and left movements of the excavator.
 - Next to the seat is a operating lever for the digger.
- Battery Information:
 - Non-rechargeable batteries should not be re-charged.
 - Ensure that the battery is placed in the correct polarities.
 - The power terminal should not be shorted out.
 - A depleted battery should be removed immediately from the excavator.
 - Only an adult can charge the battery.
 - Remove the battery first from the excavator before re-charging in.
 - Do not use old or new, or different types of batteries together.
 - When not using the excavator, turn off all switches and position levers and handles to the neutral position.
 - Only one child at a time can ride the excavator.
 - Do not use the excavator for other purposes.

Instructions for Proper Usage

1. Please install the battery and set-up the remote control first before using the excavator.
2. After locking the clutch adjustment switch at the bottom of the excavator, you can use either the remote control or manual operation.
3. Release clutch adjustment: You can use the push handle to control the excavator's movements.
4. There is a lever for the digger next to the seat. Use this cautiously.

Lithium Battery Care and Maintenance

Top 3 Battery Care Requirements

1. **Charge battery before first use.** The battery may arrive with some charge, regardless of this the battery must be charged for 8 – 10 hours on the initial charge and 8 hours for each subsequent charge. 
2. **Charge battery immediately when it is depleted.** Do not store a depleted battery. This will permanently impact the life of the battery. If the battery is going to be stored for a period of time, fully charge the battery before storing. 
3. **Disconnect battery when not in use.** To prolong the life of a battery, disconnect it from the unit when not in use. Disconnect chargers from the battery once charged. 

To ensure the battery maintains optimum performance, follow the guidelines outlined below.

- For best results, charge batteries in temperatures between 10°C and 30°C
- When battery is charged, disconnect the charger from the power supply and remove the battery from the charger.
- If a battery is stored or otherwise unused for an extended period, and the battery has no charge remaining when you check it, consider it to be damaged. Do not attempt to recharge it or to use it. Replace it with a new battery.
- Use only with the battery charger specified by the manufacturer.
- Ensure that the battery charger electrical cord is not subjected to damage or stress. Do not operate the battery charger if it has a damaged electrical cord or plug.
- Do not use the charger in wet areas or expose it to rain or water.
- The typical estimated life of a Lithium-Ion battery is about two to three years or 300 to 500 charge cycles, whichever occurs first. One charge cycle is a period of use from fully charged, to fully discharged, and fully recharged again
- Explosion hazard – protect the battery against heat; for example, direct sunlight and fire. Do not store batteries in vehicles or locations subject to heat.
- Batteries can explode in the presence of an ignition source, such as a pilot light. To reduce the risk of serious personal injury, never use any cordless product in the presence of open flame. Exploding batteries can propel debris and chemicals.
- Do not open the battery – danger of short-circuiting and/or explosion.
- Do not attempt to destroy or disassemble the battery pack or remove any of its components.
- Do not touch the battery terminals with metal objects and/or body parts as short-circuit and/or personal injury may result.
- Explosion hazard – do not open and/or short-circuit the battery.
- Poison hazard – battery leakage (liquid ejection). Under extreme conditions, liquid may be ejected from the battery – avoid contact. If contact accidentally occurs, immediately seek medical attention, and flush with water. If liquid contacts eyes, immediately seek medical attention, flush with clean water for at least 10 minutes. Liquid ejected from the battery may cause irritation or burns.
- Dispose of non-serviceable batteries in an environmentally responsible manner and according to local regulations.

Failure to adhere to the requirements above may result in the battery becoming inoperative or battery life being reduced. In extreme cases or abuse, battery overheating or fire may result.

Maintenance

- Please clean the toy regularly. Inspect all electrical devices regularly for any signs of damages.
- Clean with a damp, soft cloth only. Do not wash with water or chemical detergents.
- Store the toy in a cool, dry area when not in use. Moisture could cause the metallic components and electrical parts to corrode.
- Remember to recharge the battery once every three months to preserve and extend the battery life.
- Check and maintain the toy on a regular basis to ensure the safety of your child. Check all plastic parts for cracks. Replace as necessary.
- NEVER change the physical structure or electrical wiring system of the toy. Have a qualified technician perform the task instead.

Troubleshooting

Problem	Possible Reasons	Possible Solutions
Excavator isn't moving	Battery has low voltage.	Recharge the battery.
	Battery is broken.	Replace with a new battery.
	The nut of the wheel has dropped off.	Screw the nut on.
	Motor is broken.	Have it repaired or replaced by a qualified technician.
	Socket connector of the battery is missing.	Replace with a new socket connector.
	Fuse wire is broken.	Change with a new fuse.
	Power is turned off.	Turn on the power.
Low speed	Battery doesn't have power.	Recharge the battery.
	Dead battery.	Change the battery or motor.
	Rough terrain.	Ride only on smooth surfaces.
	Overload.	Reduce weight.
	Battery is old.	Replace with a new battery.
Battery cannot be recharged	Charger or motor is broken.	Change new charger or motor.
	Socket connector of battery is broken.	Change new socket.
	There is no power.	Plug it in.
Short driving distances	Battery has a low charge.	Recharge the battery.
	Battery is old.	Replace with a new battery.
Excavator is shaking when driving	Poor connection of the connector cable for lens motor.	Reconnect it.
	There's dead spot on the motor.	Have it repaired or replaced by a qualified technician.
Gear is making noises	Gear case is broken or ran out of charge.	Replace gear case or recharge the battery.
	Gear is broken.	Replace with a new gear.

Specifications

Battery	6V, 4.5Ah
Battery Charger	240V 50Hz
Max. Weight Capacity	25kg
Age Level	2-4
Max User Height	90cm
Power Plug	Australian Standard

Note: Assembly required



Some experts believe that the incorrect or prolonged use of almost any product may cause serious injury or death. To help reduce your risk of serious injury or death, refer to the information below. For more information, see www.datastreamserver.com/safety

- Consult all documentation, packaging and product labelling before use. Note that some products feature documentation available online. It is recommended to print and retain the documentation.
- Before each use, check the product for loose/broken/damaged/missing parts, wear or leaks (if applicable). Never use a product with loose/broken/damaged/missing parts, wear or leaks.
- Products must be inspected and serviced (if applicable) by a qualified technician every 6 months. This is based on average residential use by persons of average size and strength, and on a property of average metropolitan size. Use beyond these recommendations may require more frequent inspections/servicing.
- Ensure that all users of the product have completed a suitable industry recognised training course before being allowed access to the product.
- The product has been supplied by a general merchandise retailer that may not be familiar with your specific application or description of application. Be sure to attain third-party approval from a qualified specialist for your application before use, regardless of any assurances from the retailer or its representatives.
- This product is not intended for use where fail-safe operation is required. As with any product (for example, automobile, computer, toaster), there is the possibility of technical issues that may require the repair or replacement of parts, or the product itself. If the possibility of such failure and the associated time it may take to rectify could in any way inconvenience the user, business or employee, or financially affect the user, business or employee, then the product is not suitable for your requirements. This product is not intended for use where incorrect operation or a failure of any kind, including but not limited to, a condition requiring product return, replacement, parts replacement or service by a technician may cause financial loss, loss of employee time or an inconvenience requiring compensation.
- If this product has been purchased in error when considering the information presented here, contact the retailer directly for details of their returns policy, if required.

