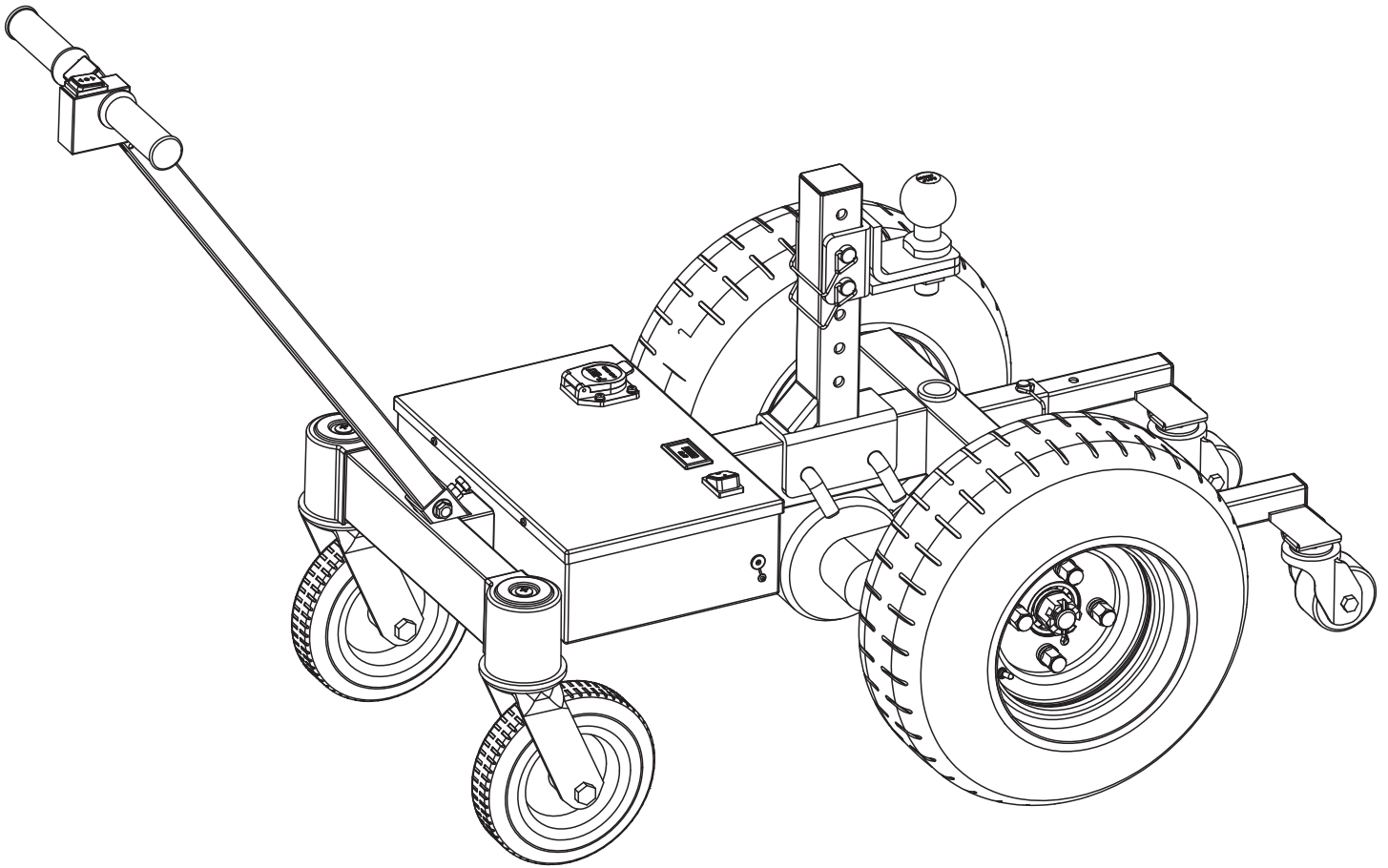




Electric Power Dolly Instruction Manual



WARNING:

Read carefully and understand all INSTRUCTIONS before operating. Failure to follow the safety rules and other basic safety precautions may result in serious personal injury.

Save these instructions in a safe place and on hand so that they can be read when required. Keep these instructions to assist in future servicing.

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1. WARNING

DO NOT USE THIS PRODUCT TO MOVE TRAILER LOADED OR UNLOADED ACROSS ANYTHING OTHER THAN LEVEL PAVED SURFACES WITH LESS THAN A 4° GRADE.

DO NOT USE ON A SLOPED DRIVEWAY.

DO NOT ATTEMPT TO USE THIS PRODUCT ON A BOAT LAUNCH.

THIS PRODUCT IS NOT INTENDED TO REPLACE YOUR VEHICLE.

- Thoroughly review the "Installation and Operation Guidelines" and familiarize yourself with your electric dolly and its operation.
- Never store the battery pack together with nails, screws, keys and other metallic or sharp objects. These items may cause short circuit of the battery terminal resulting in damage to the battery and may cause a fire, endangering personal safety.
- Avoid contact with any fluid that leaks from the battery. Dispose of all batteries in appropriate manner as these batteries will be dangerous and should no longer be used.
- Be sure to dispose of or recycle the battery according to local regulations.
- Before disposal, be sure to protect the terminal with insulating tape to prevent short circuit.
- Do not to disassemble or tamper with the battery in any way. Any such tampering will automatically void your product warranty.
- Do not attempt to charge a damaged battery pack. Replace it immediately. A damaged battery pack may cause a short circuit or fire.
- Battery packs are covered by manufacturers product warranty and will be replaced by vendor if product is still under warranty.
- Do not burn the battery pack.
- Do not operate the dolly in an environment containing explosive or combustible materials.
- When the dolly is not in use, be sure to cut off the battery power.
- Be sure to use the charger and lead-acid battery packs provided by Goodyear only. Other types of batteries may burst and cause personal injury.
- Do not to use chargers with damaged wires or plugs., Chargers with such issues should be replaced immediately.
- Do not to use the charger provided by Goodyear to charge other batteries.
- Do not charge the battery in a humid environment, and do not cover the charger with clothes or other items during charging.
- The use of accessories not recommended or provided by the charger manufacturer may lead to the risk of fire, electric shock or personal injury.
- Always charge the battery at a temperature of 32°F-120°F (0°C-49°C).
- Always store the battery at a temperature of 32°F-86°F (0°C-30°C).
- Be sure to disconnect the charger when the battery is fully charged.
- Be sure not to completely discharge the battery. If not in use, be sure to charge the battery every 3 months.
- DO NOT exceed the maximum Tow limit of this Trailer Dolly.
- Check that the hitch ball and the trailer coupler are securely mounted, and that the brake control system of your trailer is in good working order before connecting it to the Trailer Dolly. NEVER pull a RV, yacht or any other trailer which has no brake or has faulty brakes.
- Always use factory approved mounting hardware, components and fittings.
- NEVER pull a load with this Trailer Dolly on any steep grade or non-paved road. Always make sure the road surface is paved, level and less than a 4 degrees grade.
- Do not use the dolly to move people.
- Do not operate this dolly under the influence of alcohol or drugs.
- Be sure to remove any objects or obstacles that may hinder the safe operation of the dolly.
- When assembling, maintaining or prepping the dolly for storage, be sure to disconnect the power supply from the dolly.
- DO NOT operate or install the dolly without reading or understanding the operator's manual.
- Do not operate this dolly if you are under 16 years old.

2. TECHNICAL SPECIFICATIONS

2.1 Main Use

Goodyear electric power dolly is compact in structure and convenient in operation. It is used for towing trailers, RVs, etc. equipped with ball head couplings. It has the functions of forward, backward and basic steering. It is intended for movement of trailers over short distances or in compact, confined spaces.

Item No.	PD103.01
Hitch Ball Specifications	2-5/16"
Auxiliary Wheels	W/
Dimensions	60"x28"x39" (1504x705x980mm)
Net Weight/Gross Weight	163/203 lb (73/91 kg)
Power Supply	DC 24V, 9Ah
Power	800W
Maximum Bearing Capacity	Trailer Weight: 7500 lb (3400 kg) Tongue Weight: 1250 lb (560 kg)

2.2 Product Packaging List

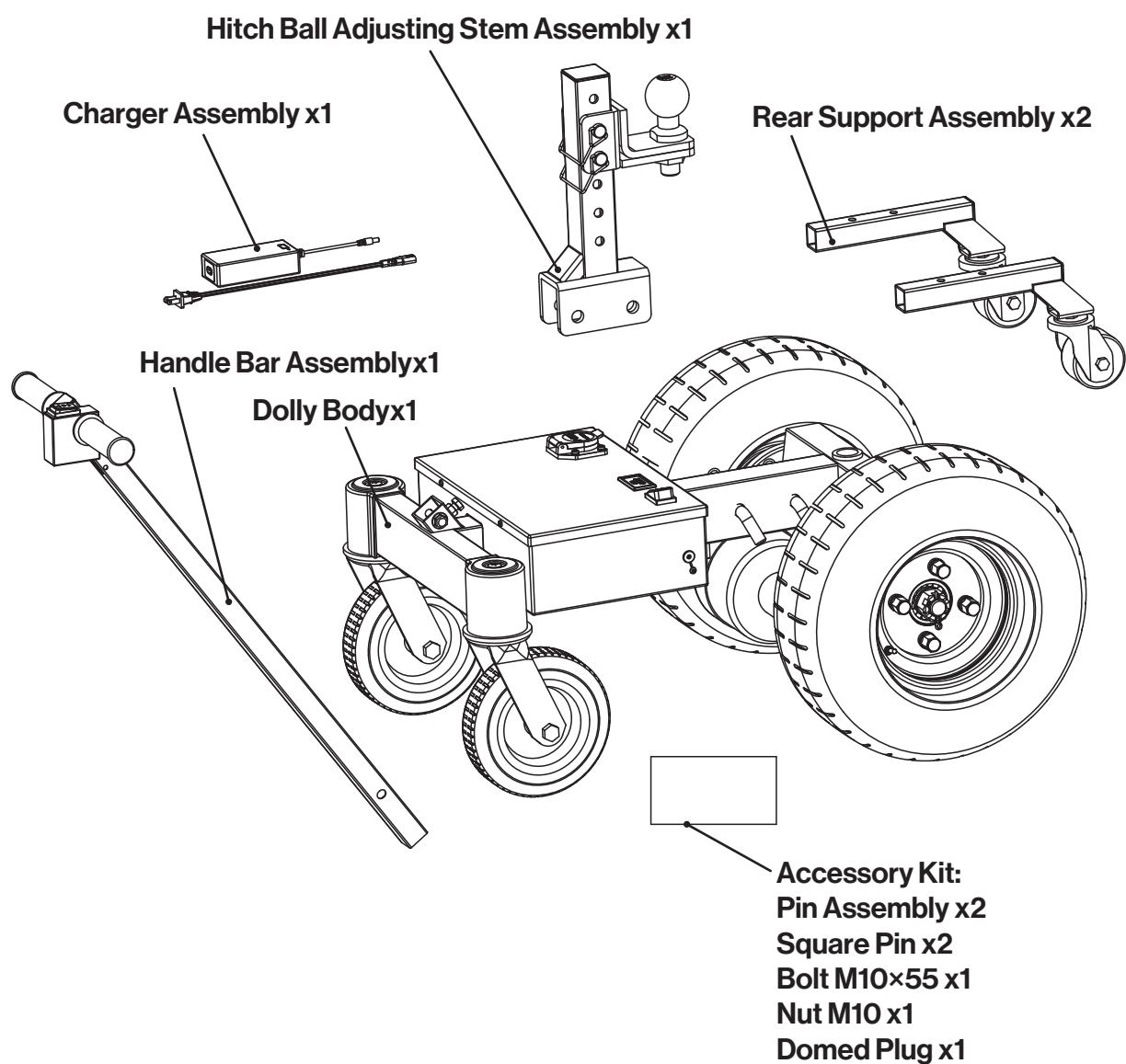


Fig.01

3. MAIN COMPONENTS

1. **Start switch:** Control the dolly to move "forward" or "backward"
2. **Transformer:** Voltage conversion, 24V to 12V
3. **Controller:** A device to preset instructions
4. **7-core socket:** Provide 12V power supply to the electromagnetic brake
5. **Power wheel:** Transmit the traction
6. **Adjusting stem:** Adjust the position of the hitch ball forward and backward as well as up and down
7. **Hitch ball:** To be connected with the trailer coupler
8. **Frame nut:** Used when the hitch ball is installed in a low position
9. **Rear support bar:** Prevent the equipment from cocking
10. **Universal wheel:** Control the direction of traveling
11. **Charger:** INPUT 100~240VAC, OUTPUT: DC 28.8V- 2.0A
12. **Batteries:** Two 12V 9AH lead-acid batteries
13. **DC charging socket:** For the charger
14. **Power switch:** Turn "on" or "off" the main power. When the vehicle is not working, please disconnect the power
15. **Voltage and battery level indicator:** Indicate the voltage and battery level of the battery
16. **Rear axle motor assembly:** Source of power

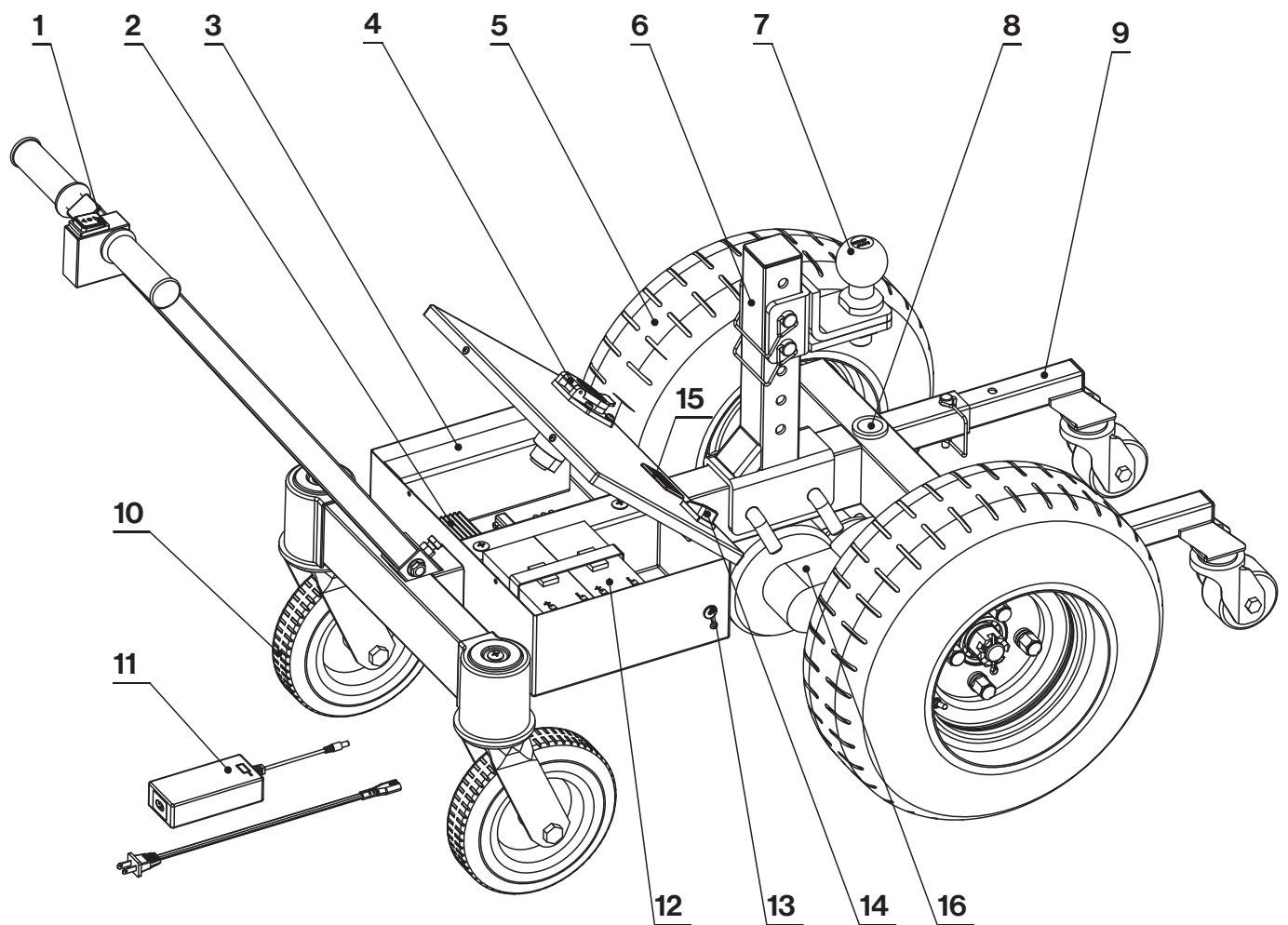
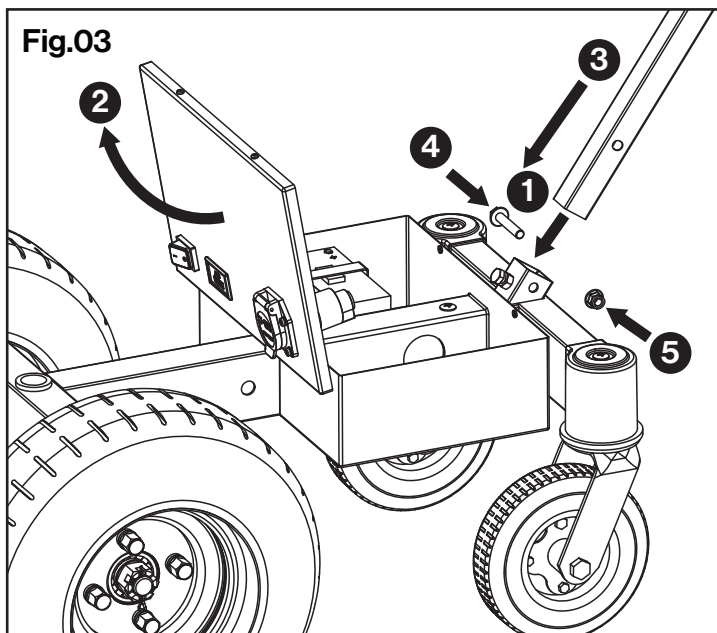


Fig.02

4. ASSEMBLY

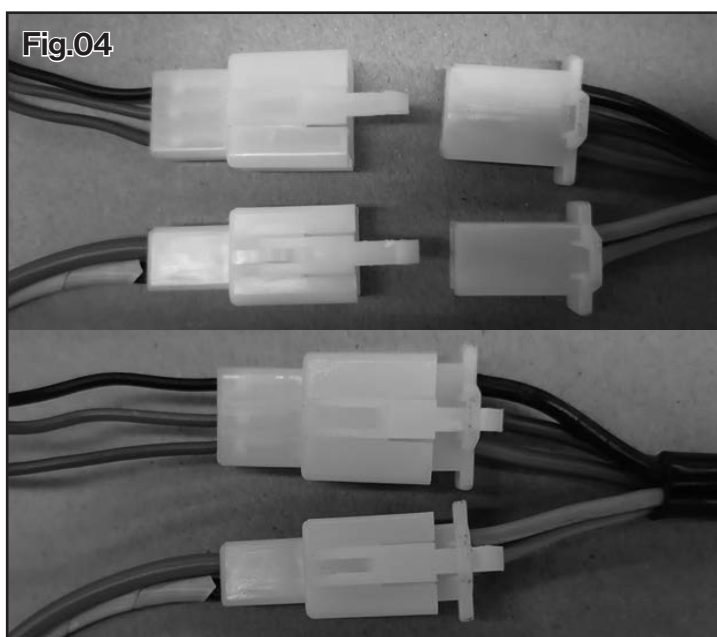
4.1 Installation of the handle bar assembly (Fig.03)

Open the lid of the control box, thread the handle assembly lead through the square opening at the front of the frame (Step 1) and lead it out through the large round hole on the side of the control box (Step 2). Insert the handle bar (Step 3), align with the holes and insert the bolts M10x55 (Step 4), and tighten the M10 nuts (Step 5).



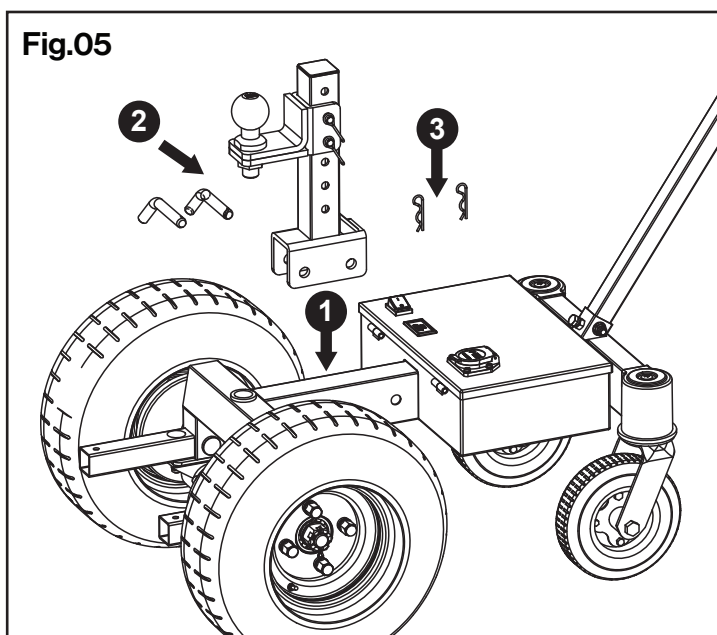
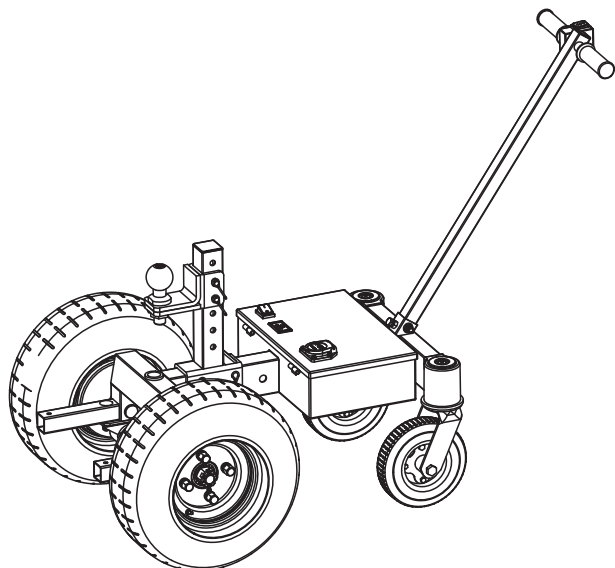
4.2 Connection of connectors (Fig.04)

Connect the handle bar leads to the corresponding 2P and 3P connectors.



4.3 Installation of the hitch ball adjusting stem assembly (Fig.05)

Align the trough of the hitch ball adjusting assembly with the frame and select appropriate holes (Step 1), insert two pins (Step 2) and then insert two B-type pins for fixation (Step 3).



4.4 Installation of the rear support assembly (Fig.06)

Insert the two rear support assemblies into the square holes of the frame respectively (Step 1), align the holes at the right positions and insert the 8×60 square pins for fixation (Step 2).

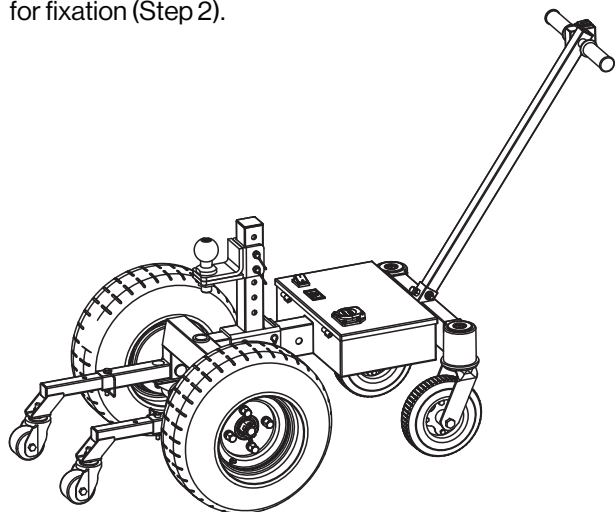
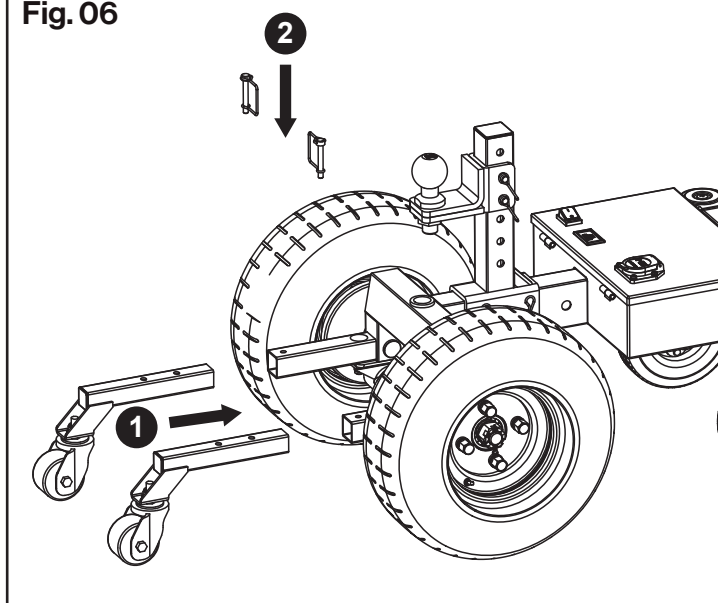


Fig. 06



4.5 Battery cable connection (Fig.07)

Electrical Schematic Diagram

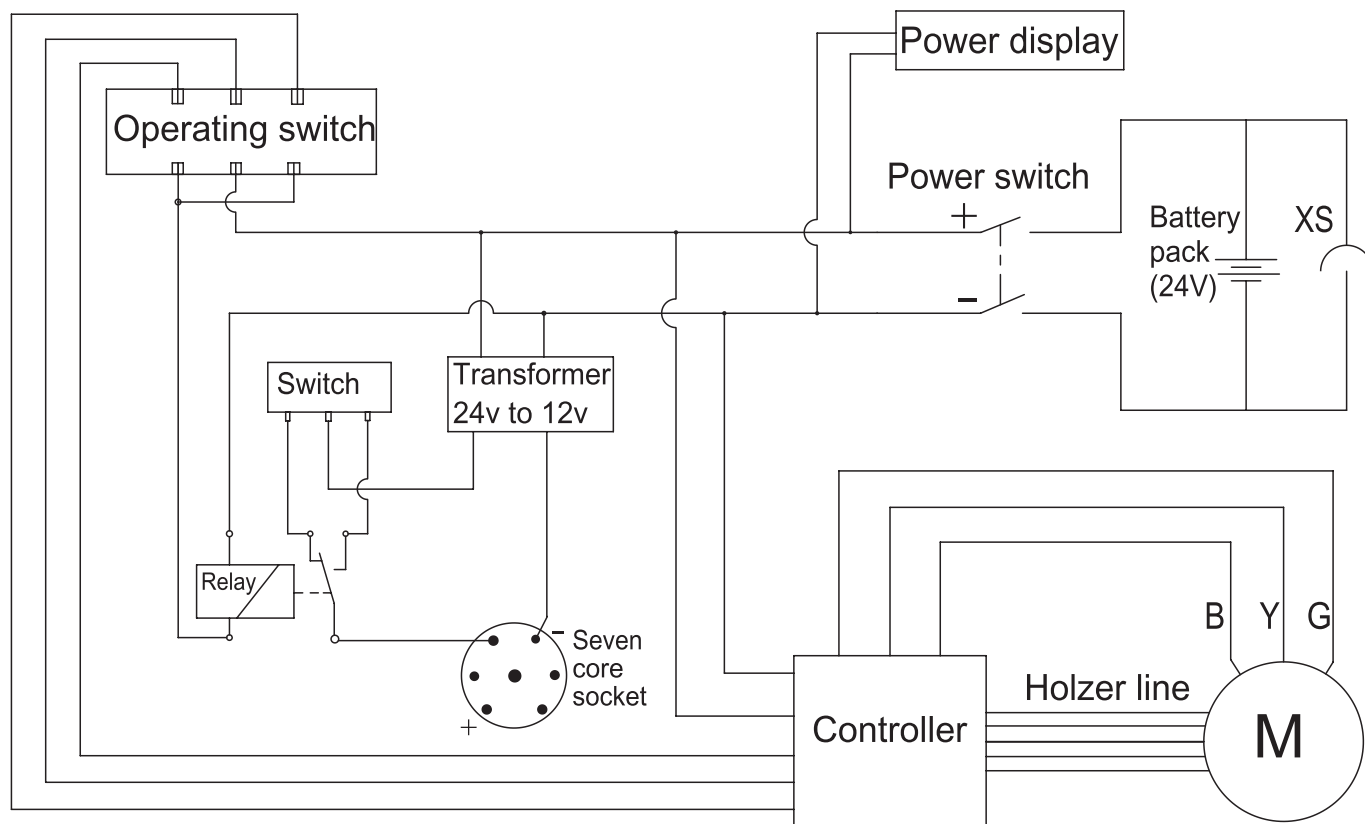


Fig.07

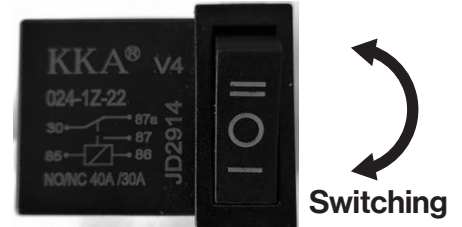
5. OPERATION

5.1 Preparation

1. Before operation, check that all bolts are securely tightened, and the hitch ball stem is Securely fastened to your desired position and locked.
2. Make sure that the tires are not cracked, bulging or otherwise defective, and that the tire pressure is maintained at 60 ± 2 psi (4.2 ± 0.1 kg/cm²).
3. Make sure that the battery has sufficient power. Check that the switches work and can be smoothly operated.
4. Test the dolly with no load to confirm that the universal wheels rotate flexibly, go forward and backward freely.
5. Make sure that the weight of the pulled trailer is less than the maximum bearing capacity of the dolly.
6. Check that the hitch ball and the trailer coupler are tightened and that the brake control system is reliably working before attaching the trailer.
7. Make sure the working road surface is level and less than 4 degrees grade.

5.2 Trailer Brake System Control Switch

1. Trailers equipped with an Electronic Brake System, can engage or disengage the trailers brakes via the forward/backward Start Switch.
2. User must connect the 7-Pin plug to the Contact Socket on the Trailer Dolly, in order to enable the electronic disengagement of the trailers' electronic brakes.
3. If Electronic Brake System can not be engaged or disengaged by the forward/backward Start Switch, open the controller box, and switch the control switch position, and then check function of electronic brake.



Remind: Long time not working, please unplug the 7-pin plug to avoid battery power loss.

5.3 Selection of hitch ball position

1. In order to ensure that the dolly operates with the maximum traction and sufficient friction is maintained between the wheels and the ground, please select the appropriate hitch ball position according to the use scenario. As shown in the figure, when the machine travels in the D direction, please put the hitch ball adjusting stem at the Gear A position; when it travels in the R direction, please put the hitch ball adjusting stem at the Gear B position. **(Fig.08)**

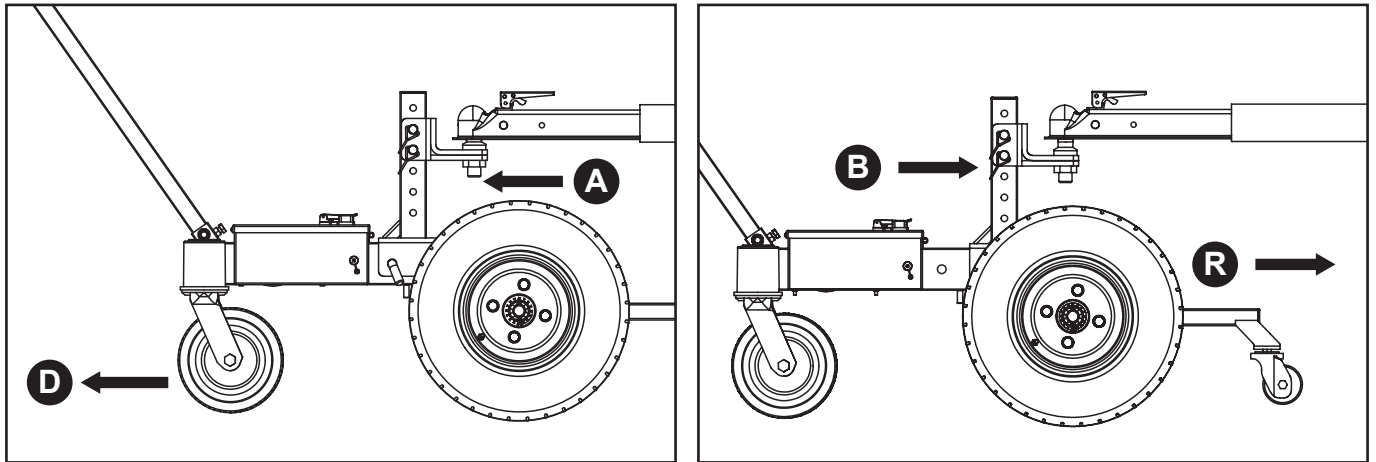


Fig.08

2. The hitch ball height of the dolly can be adjusted up and down (Figure a), or the hitch ball can be installed directly on the main frame (Figure b), with the lifting range of the hitch ball height: 17.2"-25.6". When installing the trailer, always make sure the connecting rod is parallel to the ground, because any tilt will affect the traction efficiency and even the safety risk of overturning (Figure c). **(Fig.09)**

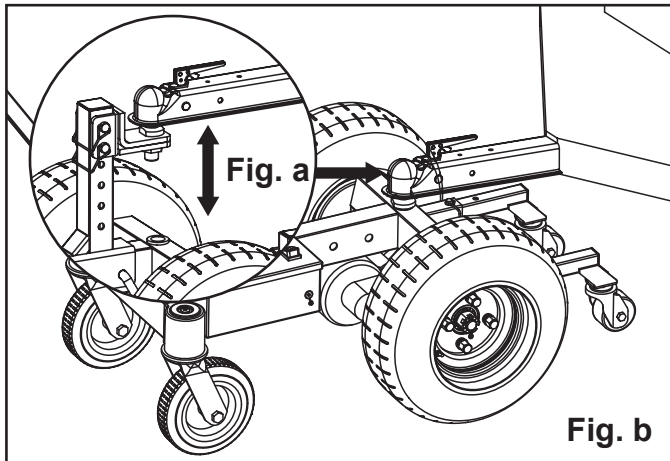


Fig.09

3. The rear support wheel assembly is intended to provide support and increased stability during towing, and according to the road conditions, can position can be adjusted up and down as well as forward and backwards relative to the main wheels. DO NOT operate trailer dolly without the support wheel assembly properly attached and secured in place. i. **(Fig.10)**

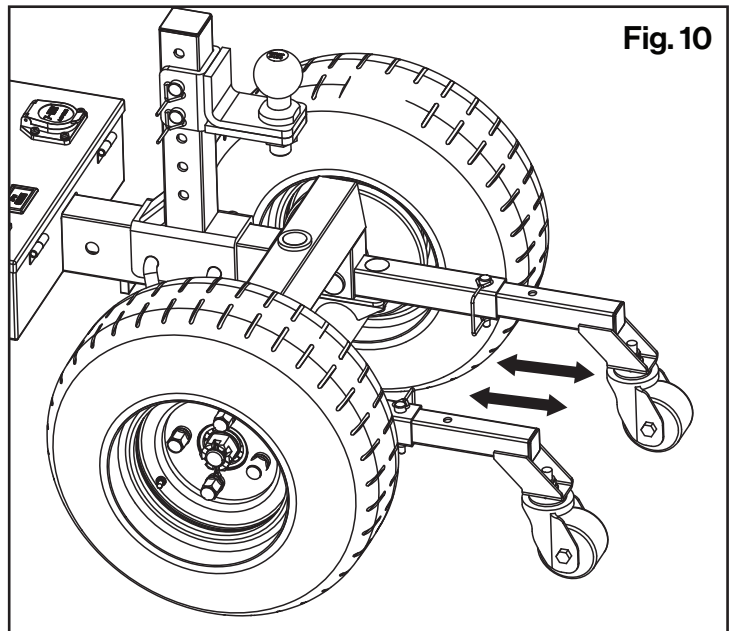


Fig.10

5.4 Towing Procedure

1. First move the dolly near the trailer coupler of the trailer, and adjust the height of the hitch ball according to the height of the trailer coupler, until the hitch ball is slightly lower than the trailer coupler. Move the dolly so that the hitch ball and the trailer coupler are coaxial (Step 1), lower the trailer slowly via the lifter until the trailer coupler fully engages with the hitch ball (Step 2), and lock the safety hook after making sure that the hitch ball and the trailer coupler are connected securely (Step 3). **(Fig.11)**

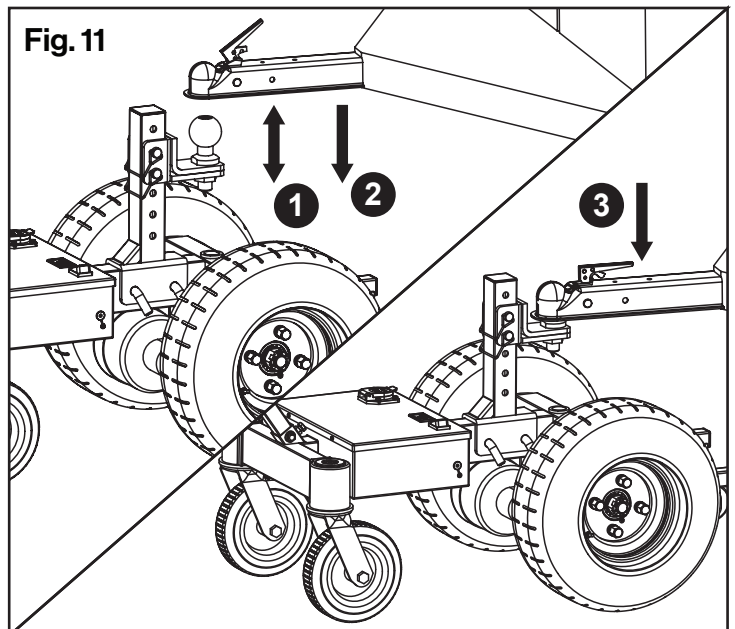
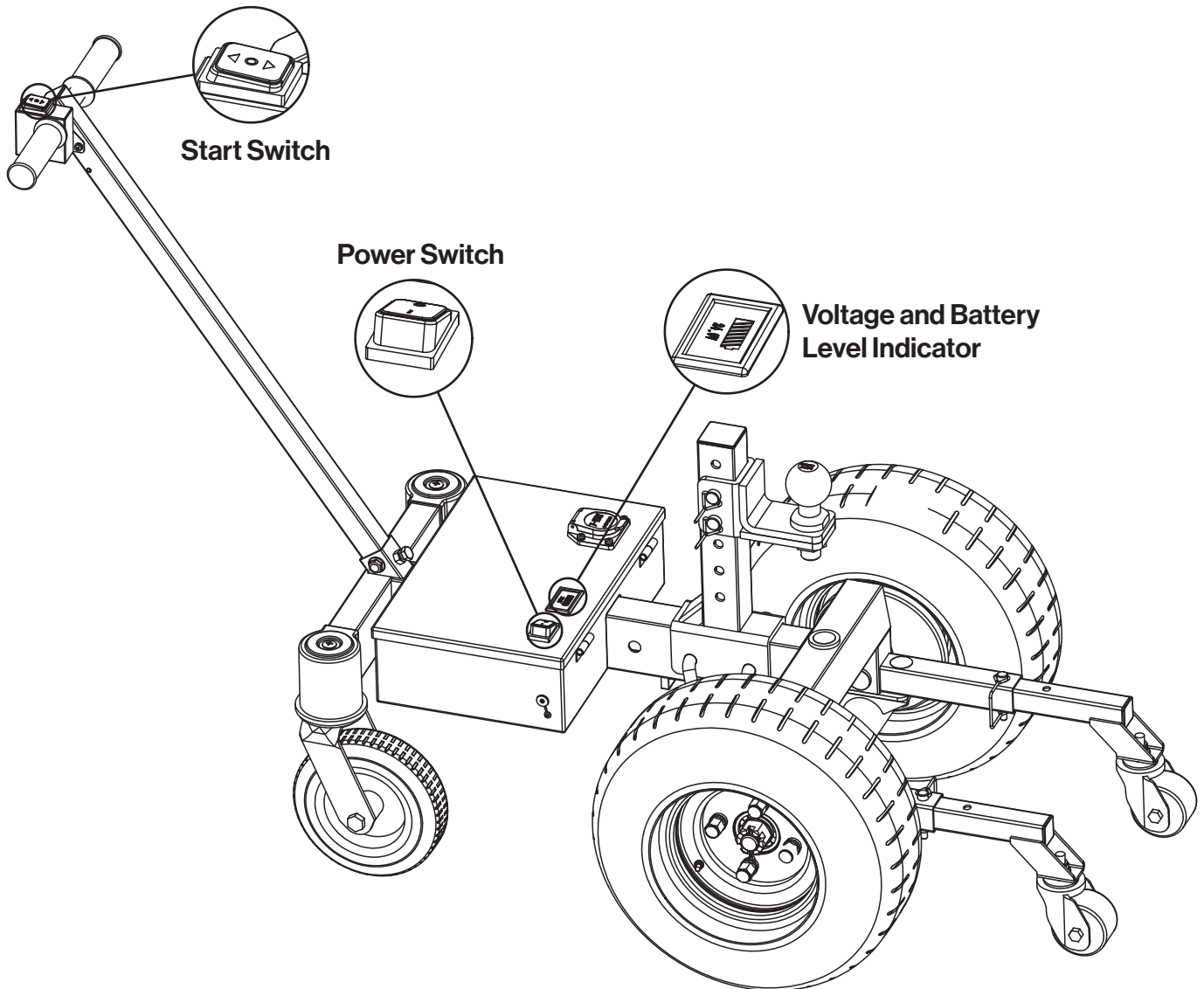


Fig. 11

2. Turn on the power switch (Step 1) and check if the voltage and battery level indication is full (Step 2). Press the start switch in the same direction as the dolly (Step 3) and then the vehicle starts to move slowly at a speed of 1.5km/h. (**Fig.12**)



3. Shut down the power after use. And park the dolly in the correct position. Please maintain the battery charge level.
BATTERY CHARGE LEVEL MUST BE MAINTAINED REGULARLY OTHERWISE THE LEAD ACID BATTERY MAY BECOME FULLY DISCHARGED, RESULTING IN DAMAGE TO THE BATTERY OR FAILURE FOR IT TO MAINTAIN ANY CHARGE.

5.5 OVERLOAD PROTECTION

The dolly is equipped with overload protection system, which will shut down the dolly when it detects an overload situation. This will protection is for both user and the product. To prevent the potential risk of damage or destruction of the machine, or injury to the operator.. Please do not try to start when the dolly overloaded and shut down, please re-start after the loading weight has been reduced to within the max rated capacity of the product.

6. SERVICE GUIDE

6.1 Replacement of the start switch

a. Pry open the snaps on both sides of the start switch (Step 1) to remove the switch, and disconnect all terminals (Step 2). (**Fig.13**)

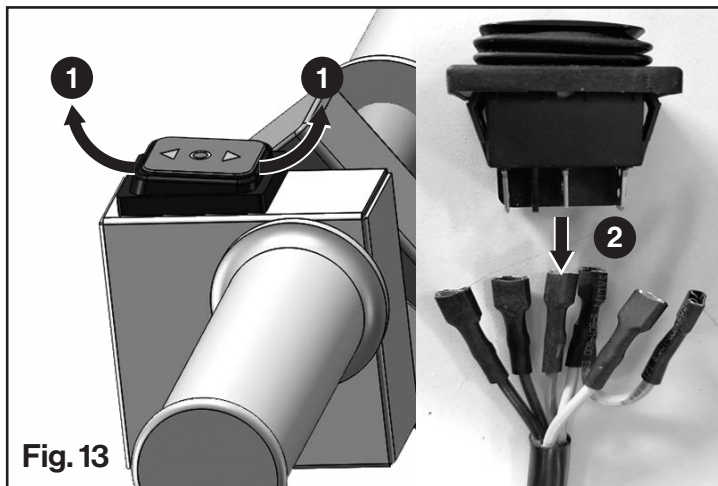
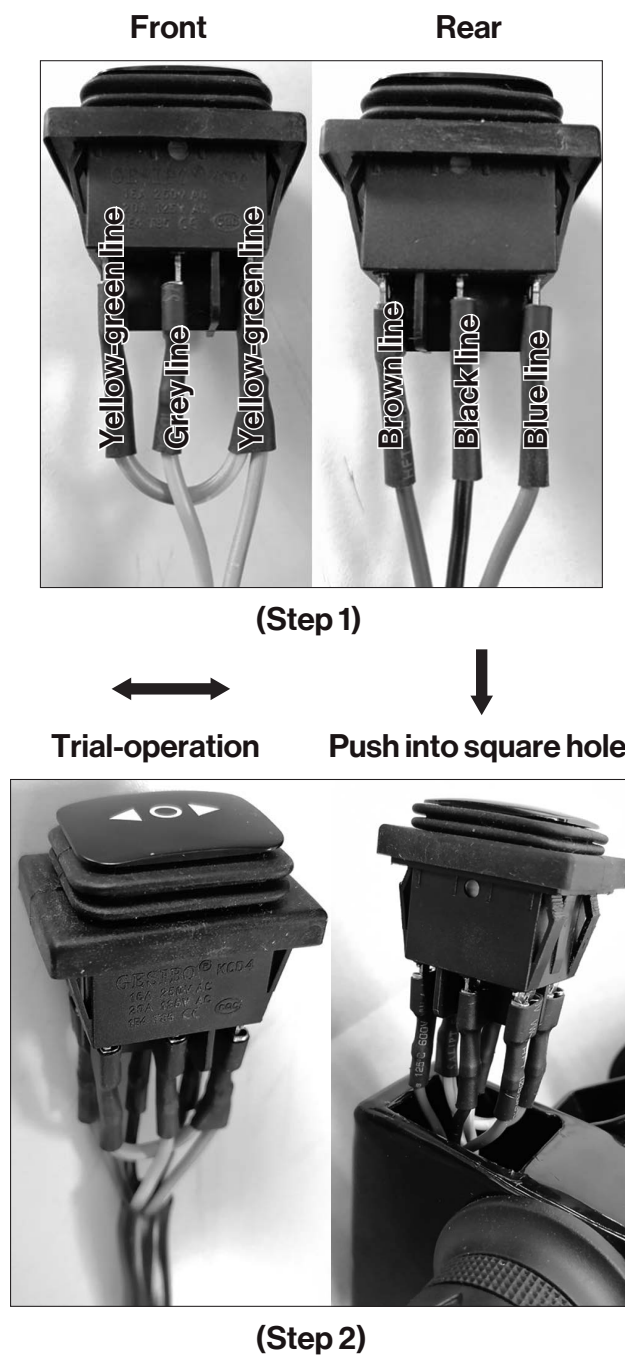


Fig. 13

b. Installation of a new start switch. Referring to the wiring diagram, insert the corresponding terminals (Step 1), press the start switch (Step 2) to make sure that the dolly moves in the same direction as shown by the switch arrow, and then align with and push the start switch into the square hole (Step 3). (**Fig.14**)

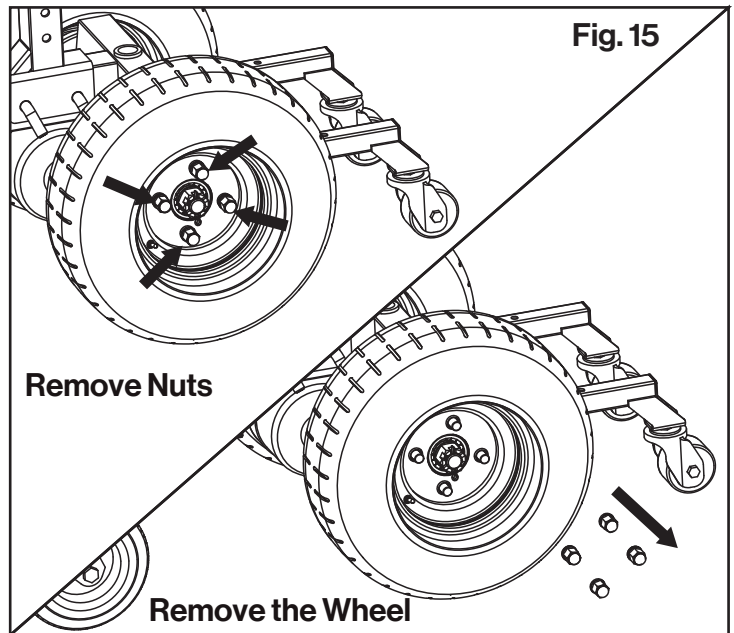
Fig. 14



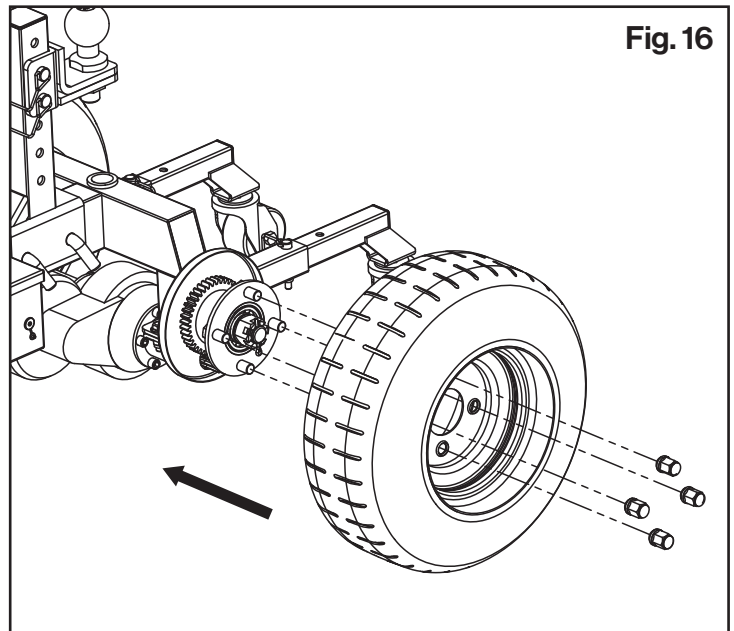
(Step 2)

6.2 Replacement of the power wheels

a. Remove the four M14 nuts (S/N 7) and knock the power wheel down alternately with a soft hammer from left to right (S/N 8). (**Fig.15**)

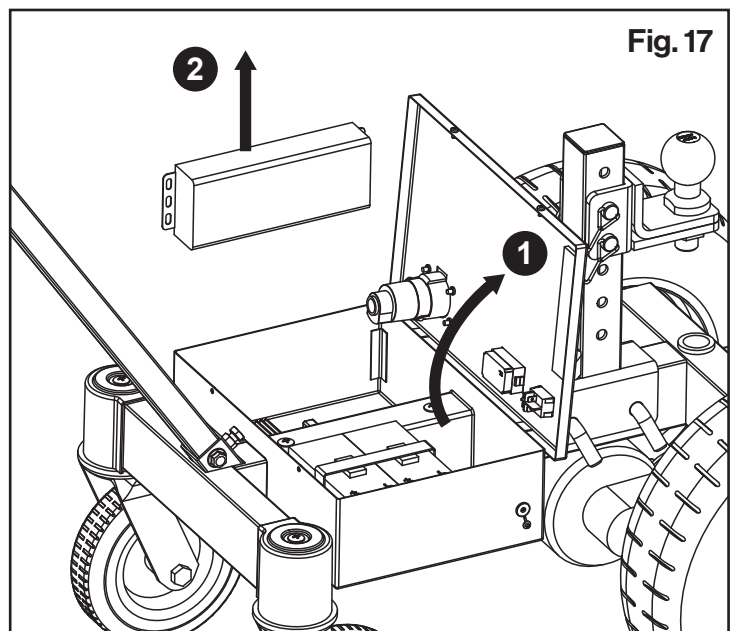


b. With the inflating inlet of the power wheel facing outward, align the mounting holes over the bolts, tighten the 4 M14 nuts diagonally. (**Fig.16**)

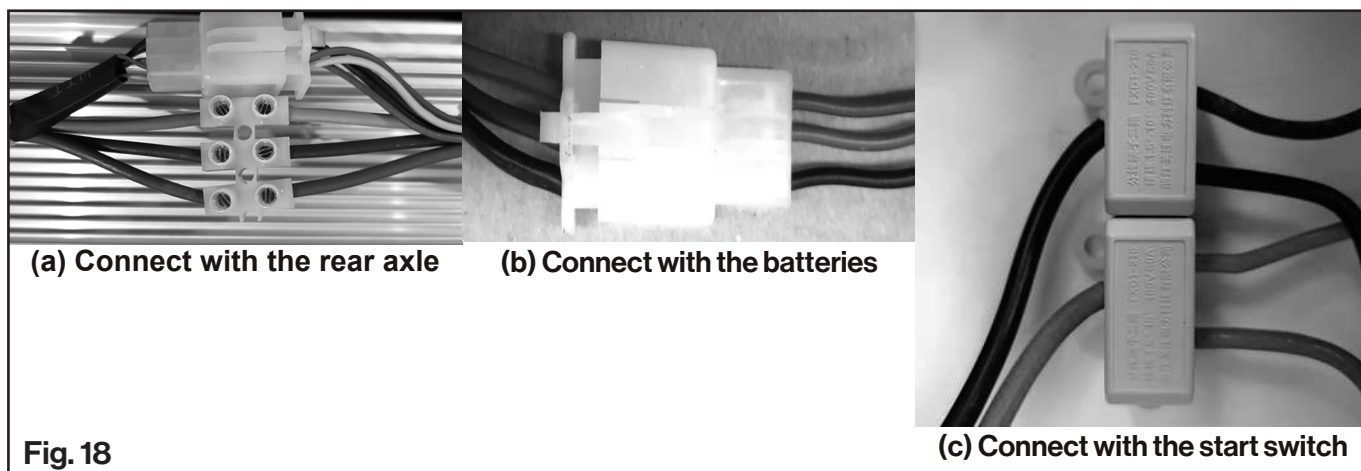


6.3 Replacement of the controller

a. Remove the M4 screws on both sides of the control box, open the lid of the control box (Step 1), pull all the terminals out of the controller, and remove the controller (Step 2). (**Fig.17**)

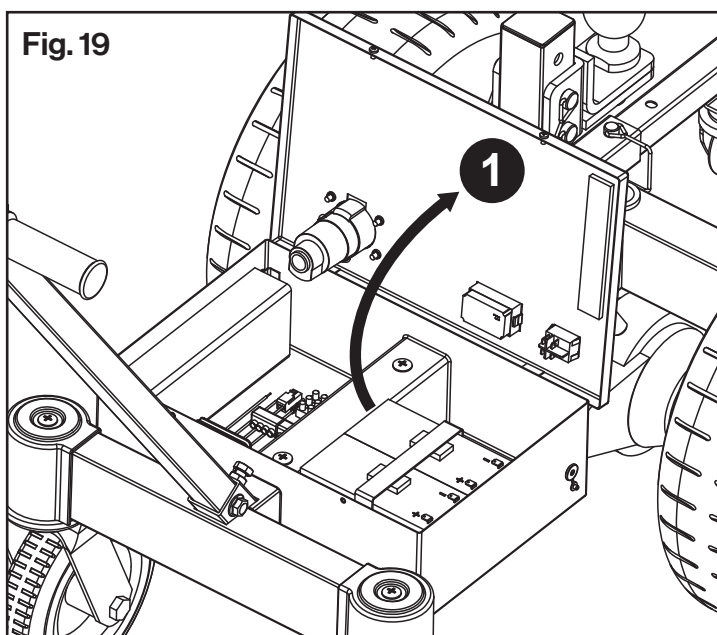
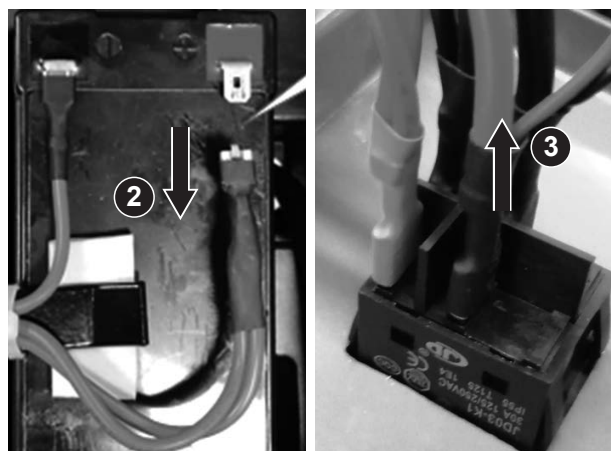


b. Installation of the controller. Insert the controller into the box compartment, connect the corresponding color wires and controller terminals according to the diagrams (Figure a, Figure b and Figure c), close the box lid and tighten the screws on both sides. **(Fig.18)**

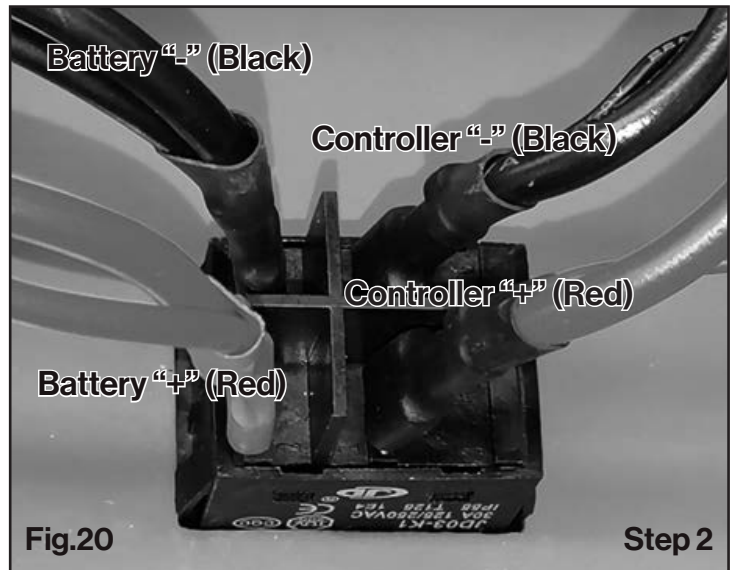
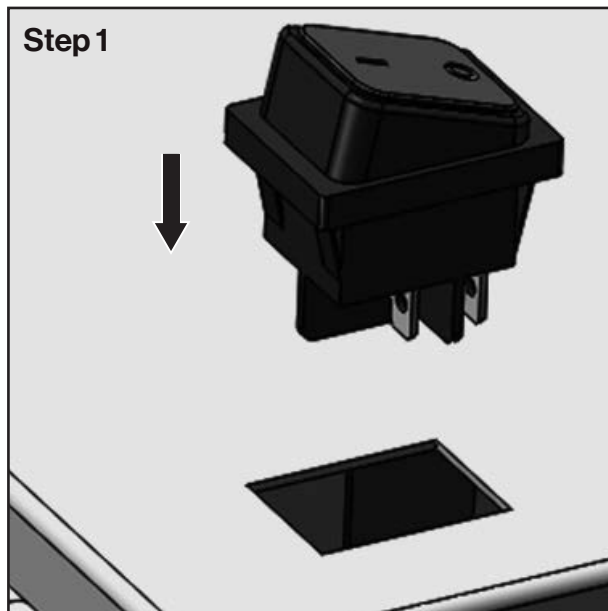


6.4 Replacement of power switch

a. Open the lid of the battery box (Step 1), disconnect the battery terminals (Step 2) first (to prevent safety accidents caused by short circuit), and then pull all the terminals out of the power switch (Step 3). Press the snap feet on the inside of the switch inward to push the switch out. **(Fig.19)**



- b. Align the power switch with the square hole of the lid and press it directly to the bottom (Step 1), make sure the snap feet is secured firmly, insert the terminals according to the electrical diagram, and then turn on the power after confirming that it is correct (Step 2). (Fig.20)



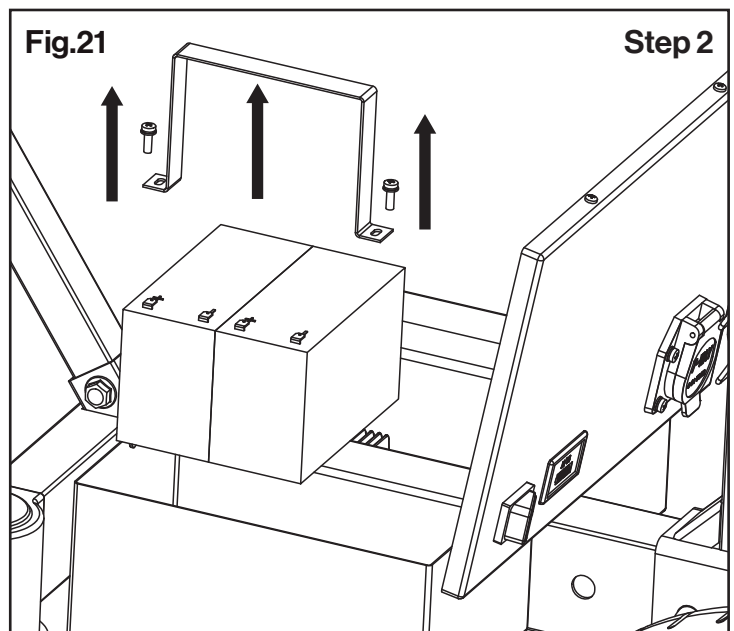
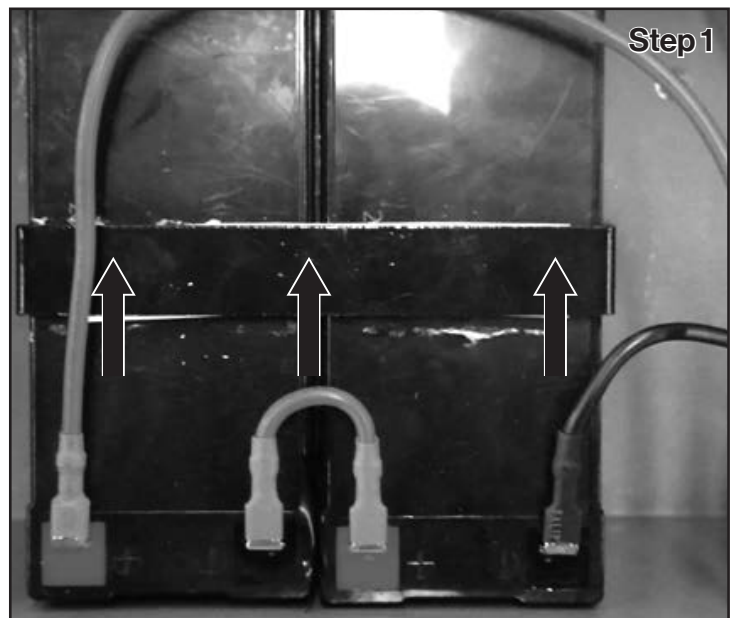
6.5 Replacement of batteries

- a. Open the battery lid, pull all the terminals out of the batteries (Step 1), remove the 2 M5 screws, and remove the fixing bracket and batteries (Step 2). (Fig.21)
- b. Install new batteries in the reverse order of the steps described above, and connect the terminals according to the electrical diagram.

Note: Due to transportation conditions, please purchase the same model NPP 12V 9A of batteries locally for replacement.

Note: Please disconnect the charging plug and the tool power switch before the above maintenance operation.

Maintenance shall be carried out under the professional guidance of the manufacturer, service agent or similar full-time personnel to avoid danger. Damaged machines, accessories and packaging materials must be treated by classification according to local environmental protection requirements.



7. MAINTENANCE AND STORAGE

1. For storage, the product shall be stored in a cool, dry and dust-free place, to avoid direct sunlight and rain.
2. During the transportation, loading and unloading of the product, it is prohibited to cast, drop, throw, trample and perform other barbaric operations on the product.

8. WARRANTY

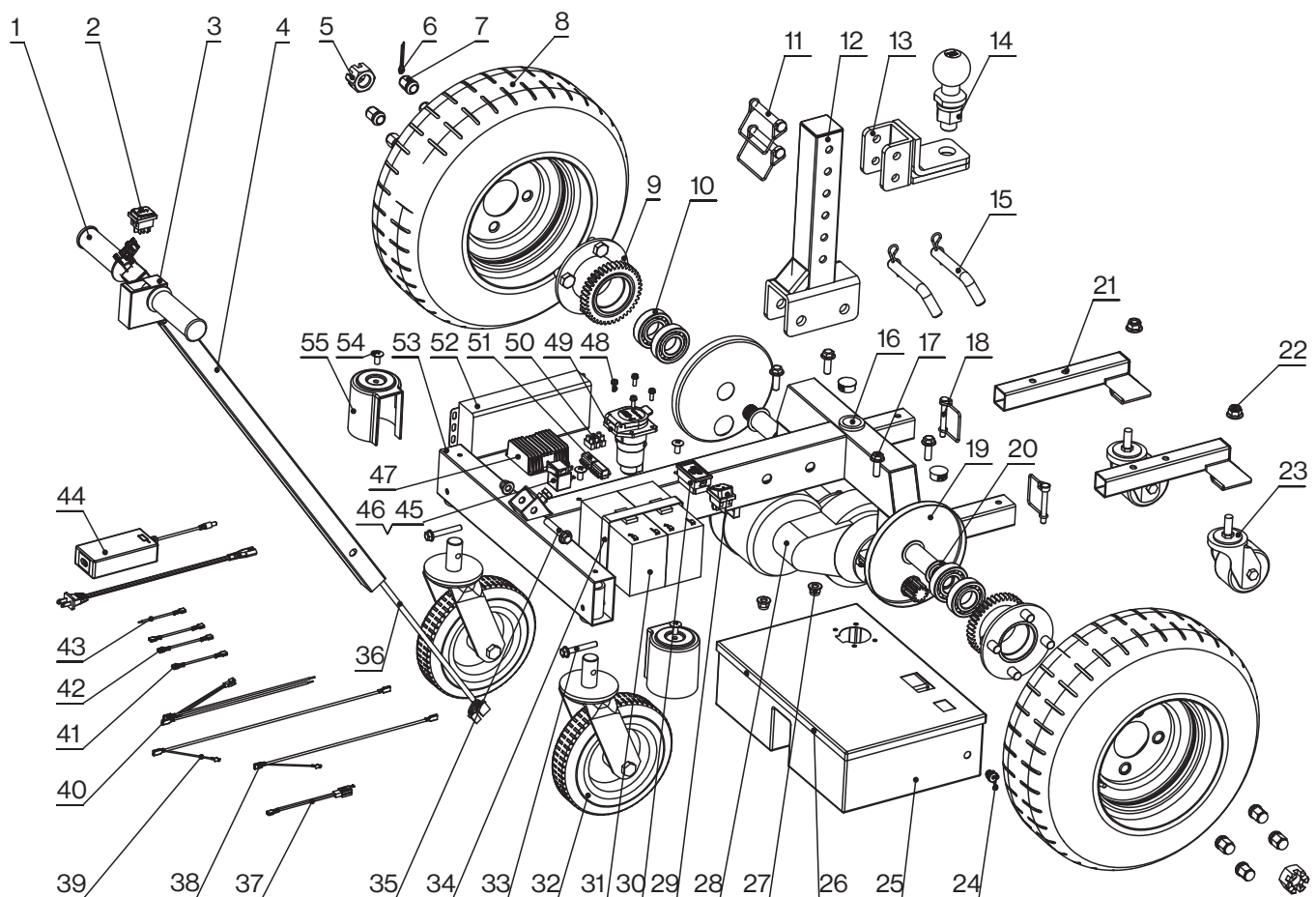
Twelve (12) months for workmanship of the product, except for wearing parts. Warranty period starts from the product purchase date. Warranty covers material quality and workmanship only.

Warranty does not cover product for issues caused by improper usage or any operation not in accordance with the specifications of this manual. Any modification or tampering with the product in any way voids the warranty.

9. TROUBLE SHOOTING

Problem(s)	Possible Cause	Corrective Action
Power dolly do not works.	1. Power shut down.	1. Check the battery status make sure it in full . 2. Check the power switch in power on status. 3. Check the connect cable without loose.
Power dolly stop during working.	1. Batteries in low. 2. Power dolly overloaded.	1. Recharge the power dolly in full. 2. Reduce the loading weight with the capacity and re-start.

10. EXPLODED AND PARTS LIST



Part No.	Description	Q'ty	Part No.	Description	Q'ty
1	Handle Sleeve	2	*29	Power Switch	1
*2	Start Switch	1	30	Voltage And Battery Level Indicator	1
3	Switch Box	1	*31	Battery 12V 9Ah	2
4	Handle Bar Assembly	1	*32	Universal Wheel, 8-in	2
5	Hex Nut M24x3	2	33	Bolt M8x55	2
6	Split Pin 4x50	2	34	Fixing Bracket	1
7	Nut M14x1.5	8	35	Bolt M10x55	1
*8	Power Wheel 16.5x6.5-8	2	36	Harness 4	1
9	Flange Gear Assembly	2	37	Harness 6	1
10	Bearing	4	38	Harness 5	1
11	Square Pin	2	39	Harness 1	1
12	Adjusting Stem Assembly	1	40	Harness 2	1
13	Hitch Ball Mount	1	41	Harness 3	1
14	Hitch Ball	1	42	Harness 7	2
15	Pin Assembly	2	43	Harness 8	1
16	Plug Ø26	3	44	Charger 24V 2A	1
17	Bolt M10x30	4	45	Relay	1
18	Square Pin	2	46	Switching Switch	1
19	Gear Cover Plate	2	47	Transformer	1
20	Washer	4	48	Screw Assembly M5x16	7
21	Rear Support Assembly	2	49	Us-style 7-core Socket	1
22	Nut M12	2	50	Binding Post	1
*23	Universal Wheel, 3-in	2	51	Terminal	2
24	Dc Socket	1	*52	Controller 24V 800W	1
25	Control Box Assembly	1	53	Frame Assembly	1
26	Screw M4x8	4	54	Screw M8x16	4
27	Nut M10	5	55	Wheel Cover	2
28	Rear Axle 24V 800W	1			

Note: "*" is the quick-wear part of the product.

11. DISCLAIMER

Before operation, please read and understand all instructions carefully, and the dolly can only be operated when the safety precautions and other basic safety preventive measures are strictly observed.

The Company will not be responsible for any personal injury or property loss caused by man-made reasons or abnormal use.



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