

Mini Mover Gen 3



PLEASE READ CAREFULLY BEFORE OPERATE THE MINI MOVER





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Trouble shooting

Problem	Cause	Solution
Motor does not turn on	 Circuit breaking Battery leads connection loose Electric contactor fault Motor fault Circuit protector activated because of overheat. 	 Press red switch on control box Screw the leads tight with battery terminal. Replace the control box part. Replace the motor Stop working 5 min for motor cooling down
Electric contactor fault Motor speed low	low voltage or too much weight on vehicle.	 Recharge the battery or check weight of vehicle.
Electric contactor fault Electric contactor fault Slippery on tire	Electric contactor fault Overload or moving on more than 7 degree incline.	Electric contactor fault Give up moving
Electric contactor fault noise	Electric contactor fault Overloador moving on more than 7 degree incline.	Decrease load weight

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Maintenance

All moving parts within the Mini Mover have been lubricated using high temperature lithium grease at the factory. No internal lubrication is required. If the Mini Mover being used in high moisture circumstance for long time and internal lubrication is necessary, please find a professional technician for maintenance.

Introduction

Thank you for purchase of Mini Mover. The Mini Mover is designed and built by strict specifications. With proper use and maintenance, it will bring years of satisfying service.

Every effort has been made to ensure the accuracy and completeness of the information in this manual. The right to change, alter and/or improve the product and this document is reserved at any time without prior notice.

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Manual conventions

This manual uses following symbols to help differentiate between different kinds of information. The safety symbol is used with a key word to alert you to potential hazards in operating and owning power tool.

Follow all safety messages to avoid or reduce the risk of serious injury and death.



DANGER indicates an imminently hazardous situation which, if not avoided, *will* result in death or serious injury.

MARNING

WARNING indicates a potentially hazardous situation which, if not avoided, *could* result in death or serious injury.

A CAUTION

CAUTION indicates a potentially hazardous situation which, if not avoided, *may* result in minor or moderate injury.

CAUTION

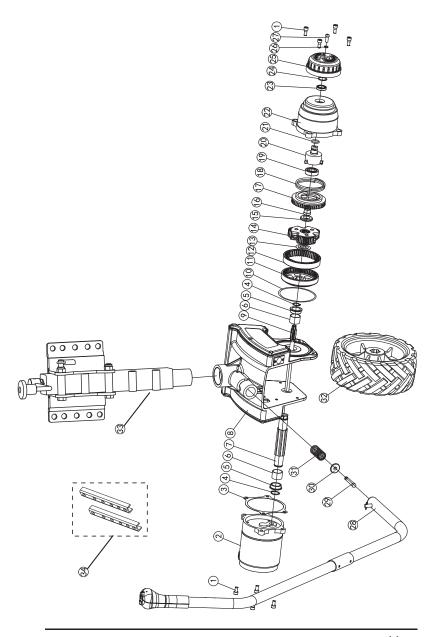
CAUTION used without the safety alert symbol indicates a potentially hazardous situation which, if not avoided, *may* result in property damage.

Parts list

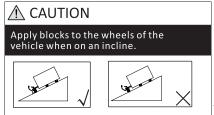
Ref. NO	Description	Qty
1	Hexagon socket cap screw M6×14	8
2	Motor	1
3	Paper mat	1
4	Retaining ring for shaft ø20	2
5	Oil bearing	2
6	Separate sheath	2
7	Shaft	1
8	Wheel frame and control box assy.	1
9	Sun gear	1
10	O-ring ø100×1.9	1
11	Active gear	1
12	Gear ring	1
13	Rub-reduce washer	1
14	Planetary gear assy.	1
15	Above clutch axes washer	1
16	Clutch bushing	1
17	Cam clutch gear	1
18	Spring	1
19	Radial ball bearing 16002	1
20	Axis support bushing	1
21	O-ring ø16×2.1	1
22	Gear box	1
23	Radial ball bearing 61802	1
24	Retaining ring for shaft ø15	1
25	Clutch Cap	1
26	Washer ø6, Locking	1
27	Bolt M6 x 16	1
28	Handle	1
29	Support shaft	1
30	Support washer	1
31	Spring	1
32	Rubber tire	1
33	Jack assembly	1
34	Fix plates (optional)	2

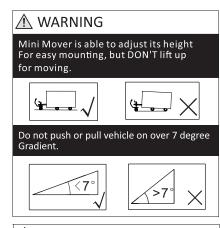
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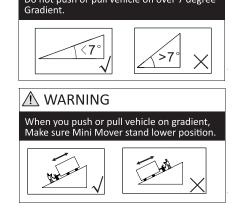
Safety Rules











Safety Rules

↑ DANGER

Please observe surrounding when you working with your Mini Mover

↑ WARNING

Disassemble the Mini Mover and vehicle when not in use

⚠ DANGER

Do not exceed rated capacity.

⚠ CAUTION

Don't use Mini Mover for long distance movement.

⚠ CAUTION

Please don't submerge Mini Mover and/or leave it on

⚠ WARNING

Disconnect the Mini Mover leads and battery when not in use

⚠ WARNING

Battery leads are replaceable but new leads have to be less than 3M in length and over 6mm² in section.

⚠ WARNING

Stop working when Mini Mover tire won't bite on slippery surface.

Operation

General tips for safe operation

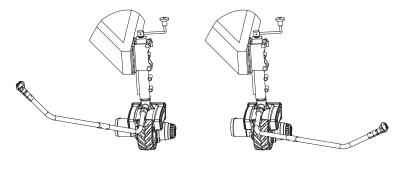
- 1. Overloads might damage the Mini Mover, motor, tire etc.
- 2. Check if the handle positioning key totally screwed with Mini Mover before you start operation.
- 3. Check if battery leads correctly connect to battery terminals.
- 4. Don't use leads that being shatered, squashed or any damage.

Operation guide

- Take time to access your situation and plan your movement.
- Clamp your Mini Mover with vehicle chassis. Locking pin and cover is recommended for every single time usage.
- Fix the handle and connect handle leads to control box, and connect battery leads to battery terminal.
- The press button shall means forward, sha means backward.

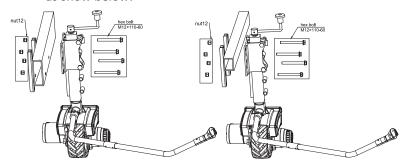


• Turn the Mini Mover tire to left or right while Mini Mover tire running.

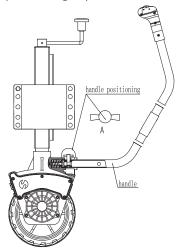


Mounting

Optional mounting: no-drilling on the chassis with 2 fix plates as show below:



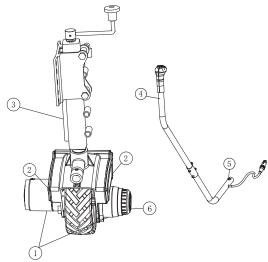
- **3.** Put the lock on to protect your mini mover from stolen.
- **4.** Fasten handle positioning key.



- **5.** Connect the battery leads. For Mini Mover to function properly: connect red (positive) to positive (+) terminal of battery or jumpstart, connect black (negative) to negative (-) terminal of battery or jumpstart.
- **6.** Connect the handle contactor to control box.
- **7.** Press red button for processing circuit, and then check for proper tire rotation.

Specification & Features

Read through this owners manual before operating your Mini Mover. Save this manual for future reference.



- ①Motor & Gear system: DC motor provides power to the gear mechanism, and reduction gears converts motor power into moving force.
- ②Control box: The electric components control forward or backward moving, and protect motor from over heat damage.
- ③ Jack assembly with lock and key: Welded design intergrates clamp, the most secure yet.
- **4** Handle: Press button with arrowindex to control moving direction.
- ⑤ Handle positioning key: It allows operator turning handle to right or left.
- ⑥ Cluth:When the clutch is "ENGAGED" status, mini mover can work driven by motor, when the clutch is "FREESPOOL" status, operator can move mini mover by manual.

Specification & Features

 Recommend power: DC 12V, 20Ah lead-acid battery or jumpstart

Motor: 12V / 550WSpeed: 6-7m/minGear ratio: 494:1

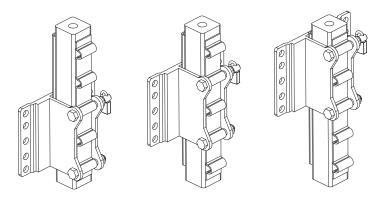
Brake: automatically brake

Move on incline: less than 7 degree incline
Max vehicle load on level road: 2722KG(6000LBS)

Max jockey wheel load: 498KG(1100LBS)

Mounting

1. Attach the clamp to the jack with two bolts; make sure to choose the proper position to fix the clamp.



2. Fix the mini mover to the trailer chassis with 4 x M12 hex bolts and 4 x M12 nuts tightly.

