



Mini Dumper Operator's Manual MD500E

FOR YOUR SAFETY
READ AND UNDERSTAND THE ENTIRE MANUAL
BEFORE OPERATING THIS MACHINE

TABLE OF CONTENTS

Table of contents-----	1
Congratulations on your purchase-----	1
Safety guidelines and safety information-----	2
Contents supplied-----	5
Assembly-----	5
Know your mini dumper-----	7
Operations-----	9
Maintenance-----	11
Storage-----	12
Trouble shooting-----	13
Parts schedule-----	14

CONGRATULATIONS AND THANK YOU FOR PURCHASING OUR NEW MODEL OF MINI TRANSPORTER.

WE HAVE DESIGNED AND BUILT THE NEW MINI DUMPER WITH THE GOAL OF MAKING YOUR LIFE MUCH MORE EASIER AND CONVENIENCE.THIS MINI DUMPER WORKS GREATLY FOR MANY APPLICATIONS.

YOU NEED TO READ

AND UNDERSTAND THE FOLLOWING CAUTIONS,SUGGESTIONS & WARNINGS TO HELP YOU INSURE THE SAFE OPERATION OF YOUR MACHINE AND HOW TO ACHIEVE THE GOOD HEALTH AND THE LONG LIFE OF MOST IMPORTANTLY

YOU

AND SENCONDLY

YOUR MACHINE.

YOU NEED TO ALWAYS KEEP IN MIND

Your machine is a piece of power equipment and needs to be used with the care and caution required of all power equipment & tools. Never let an adult, child or pet ride in your machine due to the risk of possible harm or injury.

UNDER NO CIRCUMSTANCES allow your young children 16 years of age or younger to operate the machine. Youth 16-18 years of age should ONLY be allowed to use this machine with adult supervision. Failure to use caution while operating the machine could cause injury to others and damage to property.

Always turn the power switch to the OFF position when machine isn't in use.

Operate your machine with the same care as what is required with any piece of power equipment.

Read through all the cautions and warnings below to insure a long, safe, and satisfactory relationship with your machine.

IF YOU HAVE ANY QUESTIONS, PLS CONTACT OUR RELEVANT CUSTOMER SUPPORT.

ALWAYS KEEP IN MIND the machine is power tool, it should be operated with care, especially when loaded. Avoid operating in the close proximity of adults, children, pets or objects. Keeping a safe distance is the best way to avoid possible harm and injury. Collisions with objects can result in damage to the object and/or your machine.

SAFETY GUIDELINES AND SAFETY INFORMATION

Carefully read, understand and follow all safety instructions in this manual.



This is the safety alert symbol. When you see this symbol, look for one of the following signal words.



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



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



CAUTION, used with the safety alert symbol, indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.



NOTICE is used to address practices not related to personal injury.

Read these warnings carefully. Know the application and limitations of the machine. Failure to follow these warnings could result in serious bodily injury and/or property damage.



Never allow people, children or pets to ride in your machine. Doing so may cause injury or harm to them.



Never modify the electrical system. Alterations may cause serious injury and could ruin or permanently damage the components. Use of your machine components in any other products or applications could cause overheating, fire or explosion resulting in harm, damage or injury to others or property.



This machine should never be immersed in water. Immersing the drive system or electrical components can cause operational failure of your machine and possible electrical shock.



Never use any components other than those supplied with your machine to charge the batteries. Use of other cables, chargers or any non-approved electrical equipment can cause electrical shock & fire resulting in possible harm and/or serious personal injury to you or others.



Only use AGM sealed type batteries. Non-sealed batteries can leak battery acid causing damage to property and harm to people or pets.



Never allow children to charge the battery. Battery charging must be done by adults only. A child could be injured by the electricity involved in charging the battery.



The battery must be handled by adults only. The battery is heavy and contains sulfuric acid (electrolyte). Dropping the battery could result in an acid leak and result in serious personal injury. If skin contact is made with battery acid, wash immediately with soap and water. If irritation continues seek medical attention.



Never operate your machine in an overloaded condition. Stacking material above the dumper box rim or over the sides of the dumper box can cause the machine to be uncontrollably out of balance resulting in harm or injury to you or others, and damage the property.



Never operate your machine in an overweight condition. (500kgs maximum load capacity) Weight capacity can also be limited by physical capacity of the operator. Most healthy adults can operate the machine safely with loads of up to 400kgs. Operating with loads over 400kgs is a personal decision and only you can judge your capability. Under no circumstances should you attempt to move a load weight over 500kgs.

 WARNING

Never touch the drive motor of axels after prolonged machine use. It is normal for the drive components to get warm to the touch, even not, after prolonged use. Failure to remember this can result in injury.

 WARNING

Never operate your machine or allow others to operate it while under the influence of drugs or alcohol.

 WARNING

Never under any circumstance tow the machine behind a vehicle.

 CAUTION

Never use the machine indoors, it is designed for outdoor use only. Indoor use may cause damage to flooring or other household items.

 CAUTION

Never operate your machine without having both hands firmly grasping the handles. Failure to do this will cause loss of control, resulting in harm or injury to others and possible damage to property.

 CAUTION

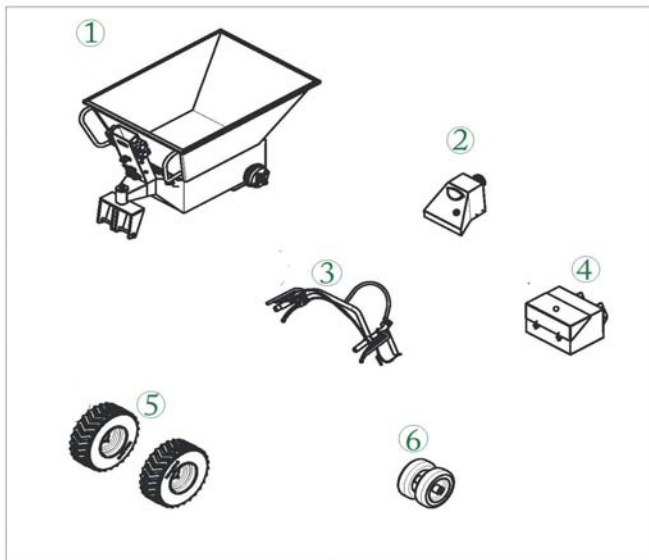
Never operate your machine on a slope more than 20°, or else machine may be difficult to get up or even turn over for the unsteady center of gravity, resulting in harm or injury to operator or others.

NOTICE

During snowy or rainy weather, the machine should be stored inside or under a protective cover.

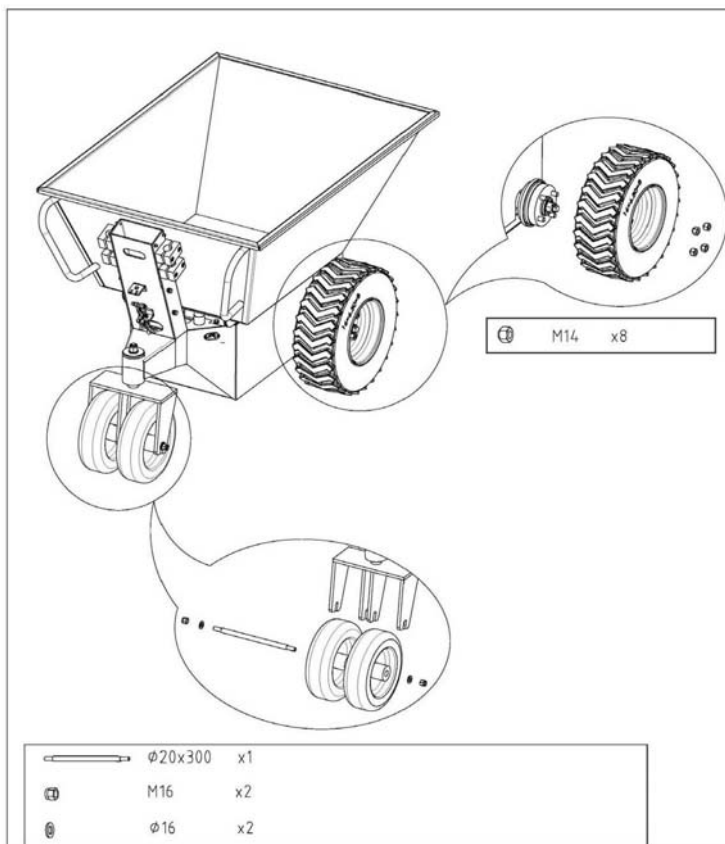
CONTENTS SUPPLIED

The machine comes partially assembled and is shipped in carefully packed package. After all the parts have been removed from the package, you should have:



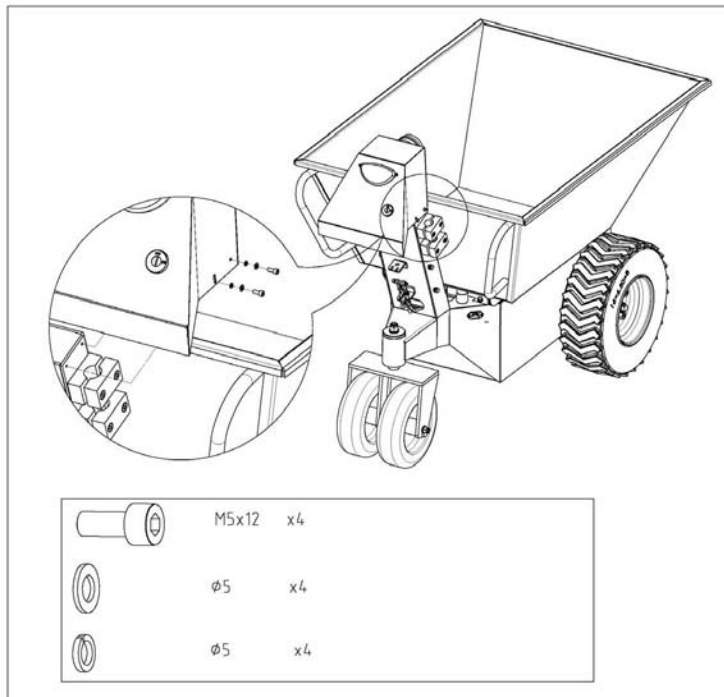
- 1.Main Frame
- 2.Electrical box
- 3.Handle bar
- 4.Tool box
- 5.Wheels
- 6.Universal wheels

ASSEMBLY

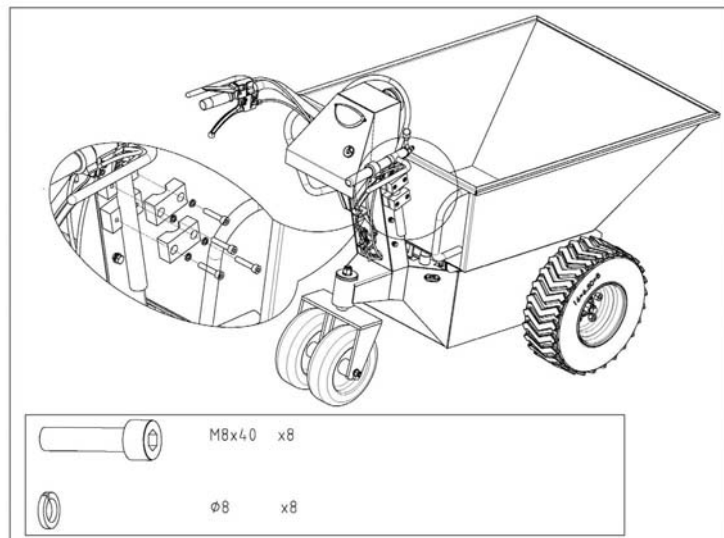


1. Mount the universal wheels using the $\phi 20 \times 300$ shaft and separately x2 washer $\phi 16$ and bolt M16 .
2. Mount the two wheels with separately x4 nut M16 .

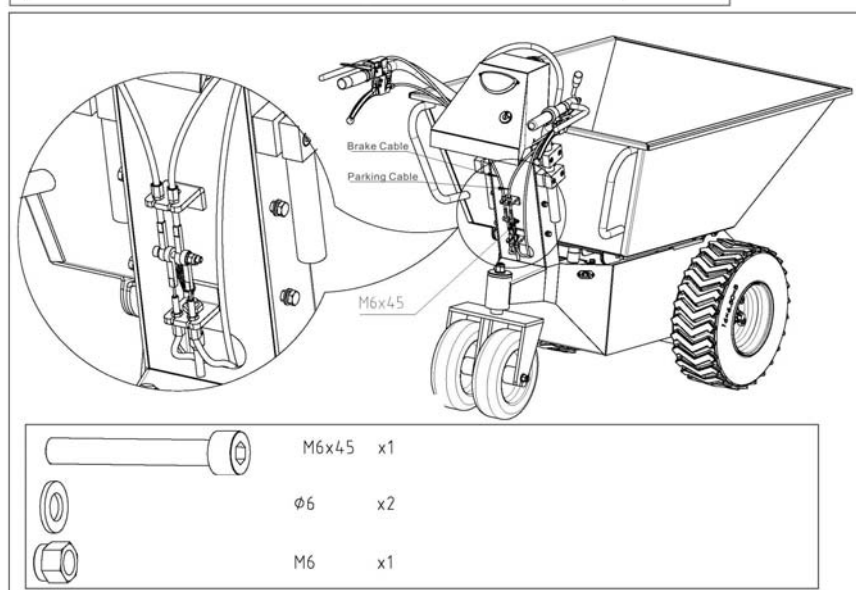
3. Connect the electrical wires refer to attachment 1.



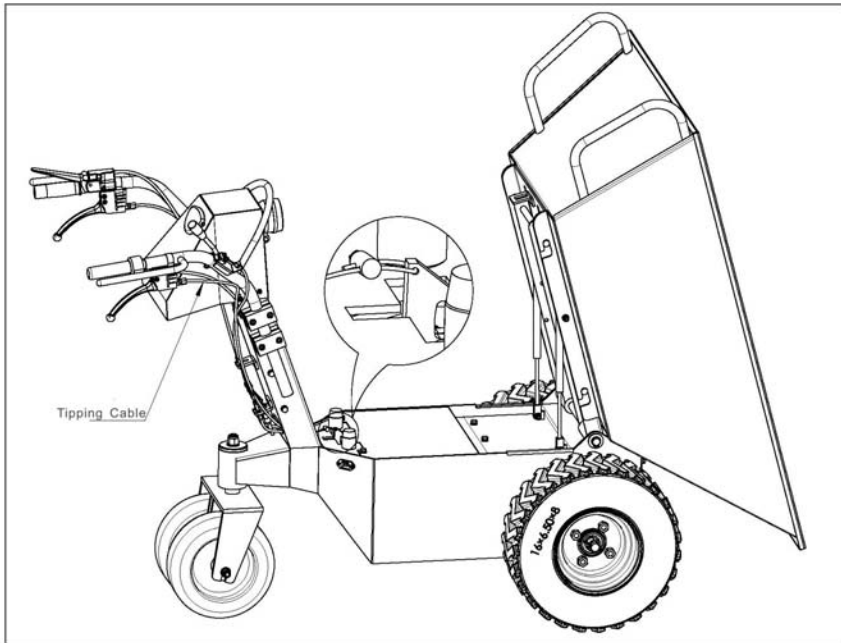
4. Mount the electrical box using x4 bolt M5x12 and φ5 bigger and small washer.



5. Mount the handle bar using separately X4 bolt M8x40 and washer φ8.



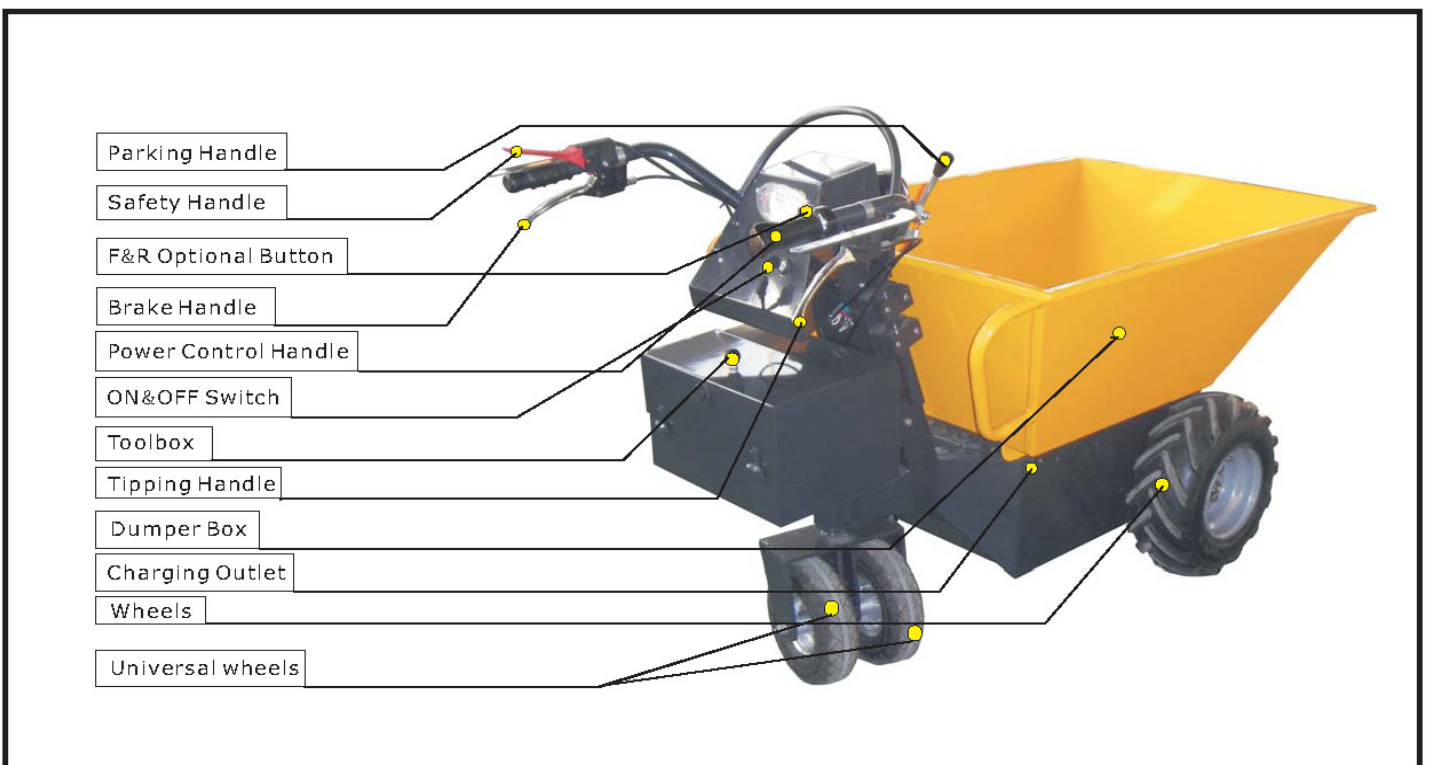
6. Fasten the brake cable and parking cable to the position showed in left picture using bolt M6x45 and φ6 washer and nut M6.



7. Fasten the tipping cable according to left picture using the fixed bolt.

8. Assemble the batteries refer to attachment 2.

KNOW YOUR MINI DUMPER



Parking Handle

Pull back this handle when you want to park the machine to make sure it won't move any more .

Safety Handle

Squeeze this handle before you want machine to move,if you want to cut off the power,release this handle,but this may fail to stop the machine to move,especially on a down slope ,you need to squeeze the Brake Handle or pull back the Parking Handle .

F&R Optional Button

Press "F" position down when you want to move forward,and press "R" down when you wan to reverse.

Brake Handle

Squeeze this handle when you want to stop the machine ,power will be cut off in the mean time.

Power Control Handle

Slowly turn this handle rightly when you want machine to move.Keep slow turning speed at the very beginning of starting.

ON&OFF Switch

Insert the key then turn it to the relevant positions showed bellow to gain different function.

Motor OFF



Motor ON



Light ON



Tipping Handle

Squeeze this handle when you want to tip the dumper box,only after locking the handle then you can go to tip the box. Detailed operations please refer to following instructions.

Charging outlet

When machine is out of power,connect the charger connector to this outlet and the other plug to the wall outlet,then machine starts to be charged.

Universal wheels

When you want to turn right or left,firmly hold the handle bar to control the universal wheels to turn right or left.

OPERATIONS

This machine is similar to any other power driven tools, although very easy to operate it will take some familiarity with the controls and balance to master it fully. Before your any operations to it, it's a good idea to get well familiar with the controlling of it, look through the whole operation manual firstly.



Using the machine on or near steep inclines may cause it to be uncontrollable and cause injury to yourself & others and/or damage to property, the suggested and safe slope is 20%. And at all times keep your feet firmly on the ground and two hands on the handle bar to maintain controls.

Charging the batteries

Your machine comes with partially charged batteries, (normally 60 to 70%), and it should operate normally once assembled. When show board "L.V" light turns red, machine should be charged for further use. Refer to bellow pictures for detailed operations:

1. Open up the tool box, lay out the charger face up as shown.



2. Install the proper charger plug to the battery box plug, and the other plug to the outlet as shown.



3. When outlet power is ON, the power light (upper) and charging light (down) on the charger are both in red. When fully charged, the charging light turns green, then pull the plugs from outlet and battery box plug. Machine can be operated.

Start your machine

1. Insert the key and turn it to "ON" position.

2.Squeeze the Safety Handle ,release the Parking Handle and press the F&R Optional Button to "F" position(take moving forward for example),then slowly turn the Power Control Handle rightly.

NOTICE

You can move the machine with power off,just release the Parking Handle,then you can pull or push it to a large open outside area,but this is only suggested when machine is no-load.If loaded,cannot move anymore ,keep your mind to turn the Power Control Handle **slowly** enough,and firmly grasp the handle bar with your hands.

Control the speed

You should adjust the turning of Power Control Handle by your right hand to control the moving speed.Light turning will be lower speed and heavy turning will be higher speed.

Braking

The braking system in fact is the same function to cut power off.When you squeeze the Braking Handle,power will be cut off meantime.If on a downward slope,machine can slide forward if Parking Handle fails to pull back.Always pay attention to this aspect.

Stop and re-start your machine

Normally when you release the Safety Handle ,power will be cut off immediately and machine stops.But if in a slope ,you should pull back the Parking Handle meantime.This is suggested in every stop for sure safety.

Squeeze the Safety Handle and release the Parking Handle to re-start your machine.

Move forward and backward

Press F&R Optional Button to control this procedure.

Tipping

Before tipping,make sure the Parking Handle has been pulled back,your machine has been fully stopped,then follow bellow steps to tip the dumper box:

1.Squeeze the Tipping Handle ,subsequently press down the locking button as shown rightly.

Then you can tip the dumper box manually.

2.Squeeze again the Tipping Handle when you want dumper box back ,the Locking button will automatic



unlock,then dumper box can be pull back.

MAINTENANCE

Charger:Regularly examine the charger for damage to the cord,plug,housing or other parts that may result in the risk of fire,electric shock or injury.In the event of any damage,do not use the charger until the damage has been properly repaired.

Battery:Regularly examine the batteries,always keep them clean and dry.It is recommended to fully charge your batteries installed in your machine before each use.Always charge the batteries in the upright position.For best results,charge the batteries while installed in your machine.When in storage keep the battery box and/or machine in an upright position with the machine drive wheels and both support legs flat on level ground.

Cold weather storage:for prolonged storage in bellow freezing temperatures,it is recommended to unplug remove the battery box from the main chassis.During long winter storage,it is recommended to periodically recharge the batteries using the enclosed charger to ensure long life.

Your machine comes with high quality,safety sealed,AGM type batteries.Like all batteries they contain battery acid.Your batteries meet the AGM safety standard.This means they have extra protection to insure they stay sealed.However,if they are dropped or misused they may crack or break allowing for an acid leak.Inspect your batteries regularly to insure there is no sign of acid leak.



Never charge the machine in a wet or moist environment.Never charge your machine while is in contact with water.



If acid comes in contract with skin or eyes,flush immediately with water for at least 15 minutes and if irritation persists call a physician.



If acid is internally ingested,give water,milk of magnesia or egg whites immediately.Never give emetics or induce vomiting.Seek professional medical help immediately.



If a battery leak develops,avoid contact with the leaking acid and place the damaged battery in a plastic bag.See"Battery Disposal"for proper disposal.



Before charging the battery,examine the battery case for cracks and other damage which may cause battery sulfuric acid(electrolyte) to leak during the charging process. If damage is detected ,do not charge the battery or use it in your machine.Battery acid is very corrosive and can cause severe damage to surface it contacts.Using acid resistant gloves-put the leaking battery in a heavy plastic bag and dispose in accordance with local regulations.It is unlawful to dispose of your batteries in normal municipal trash services.Batteries mush be taken to an authorized battery return operations.Most retail

outlets that sell batteries are required to take all batteries for disposal.Or check with your local municipality for the disposal location nearest you for instructions on proper disposal.

NOTICE

Battery must be upright while charging.If power flow to the the wall outlet is controlled by a switch,make sure the switch is on.Use the machine charger only in a wall outlet.Never plug the charges into a ceiling outlet.

NOTICE

Do not place the battery on a surface(such as kitchen counter tops)which could be damaged by the acid contained inside the battery.Take precautions to protect the surface on which you place your battery.

Battery disposal:

NOTICE

Your battery is a non-spillable,sealed lead-acid battery.It must be recycled or disposed of in an environmentally sound manner.Do not dispose of a lead-acid battery in a fire as the battery may explored or leak.Do not dispose of a lead-acid battery in your regular household trash.The incineration,landfilling or mixing of sealed lead-acid batteries with household trash is prohibited by law in most areas.Return an exhausted battery to a federal or stare approved lead-acid battery recycler,such as an authorized dealer or seller of automotive batteries.Contact your local waste management officials for other information regarding the environmentally sound collection,recycling and disposal of lead-acid batteries.

Tires:Check to make sure the lug nuts on the tires are secure.Loose lugs nuts may cause the tire to come loose and result in the loss of control.

Hardware:Periodically check all fasteners/hardwares for proper tightness.Retighten any loose hardwares.

Motor oil:Periodically check the oil level in the drive system.To check oil level remove the fill bolt and check to see there is oil in the drive system.If necessary add additional engine oil to the drive system.

Wire connections:Periodically check all wire connections.

STORAGE

If the machine will not be used for a period longer than 30 days, pay attention to bellow aspects to for proper storage.

- 1.The batteries should be fully charged before storage ,and regularly charge them,better 10 days.
- 2.Keep the batteries clean and dry,do not store the whole machine in wet environment.
- 3.Use clean cloths to clean off the outside of the machine and to keep the air vents free of obstructions.
- 4.Store your unit on flat ground in a clean, dry building that has good ventilation.

TROUBLE SHOOTING

Problem	Possible Cause	Solution
Machine does not run. Machine was running but suddenly stopped. Short run time(less than 1-3 hours per charge.) Machine runs sluggishly. Battery lights do not illuminate.	Undercharged battery.	Charge the battery.A new battery should have been charged for at least 12 hours before using the machine for the first time.After first-time use,recharge the battery until the green charge light illuminates. Check all connectors.Make sure the charger connector is plugged into the battery box,and that the charger is plugged into to outlet. Make sure power flow to the wall outlet is "ON".
	Charger is not working.	There is no sure way to tell if your charger is working unless you have a volt meter.If you suspect there is a problem with your charger,contact the customer service.
	Loose wire or loose connectors.	Check all wires and connectors.Make sure the motor harness connector is plugged into the battery,and that there are no loose wires.
	Dead battery.	Charge the battery as showed in the Owner's manual.
	Motor damage.	Contact customer service for diagnosis and/or repair.
	Overcharged battery.	Do not charge the battery longer than 30 hours.If you suspect damage due to overcharging,contact customer service.
	Machine is overloaded and/or running conditions are too stressful.	Make sure not to overload the machine,maximum capacity is 500kgs or run in a less stressful environment.
	Loose wire or connector.	Check all wire connections to make sure they are tight.
	Motor or electrical damage.	Contact customer service for diagnosis and/or repair.
	It is normal for the batteries to make noise or swell slightly while charging and is not reason for concern.	No Action required. If your battery does not make noise or swell slightly during charging,it does not mean that it is not accepting the charge.
One or more tires are flat.	Tire has lost air.	Inflate the tire with proper quantity air.
	Tire puncture.	Patch or replace damaged inner Tube.
	Leaky tire air valve.	Replace or tighten tire air valve.
Machine feels loose or less solid then initial assembly.	Hardware has become loose.	Retighten all hardware using tools.

PARTS SCHEDULE

