

# RMB EV

# Flex 500

Read this manual completely  
before assembling and riding our  
RMB EV Flex 500.



## Owner's Manual

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RMB EV

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# **Technical Information**

**Flex 500**

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Model No.	RMB Flex 500
Product size	40 L x 27 W x 38 H inch (102 L x 68 W x 98 H cm)
Type of motor	Permanent-magnet brushless DC wheel motor
Motor power	500 w Wheel motor, 48 V
Battery type	sealed lead acid battery
Battery capacity	48 Volt, 12Ah
Charger	110V-240V, UL approved
Charging time	4-6 hours
Max. speed	Up to 15 MPH ( 25 km/h)
Single charge	Up to 20 MILES (32 km)
Max capacity	275 LBS (100 kg)
Net weight	112 LBS (51 kg)

# Warning Statement

Flex 500



## IMPORTANT!

Before you operate your Flex 500, please read carefully:

YOUR EXISTING INSURANCE POLICY MAY NOT PROVIDE COVERAGE FOR ELECTRIC VEHICLES. YOU SHOULD CONTACT YOUR INSURANCE AGENT TO DETERMINE IF COVERAGE IS PROVIDED.



Do not ride this scooter until you read and thoroughly understand the owners manual. It contains information critical to your safety. If you have any questions about the operation of the scooter, you should consult your authorized dealer.



It is extremely important that you follow the safety guidelines contained in this manual in order to ensure maximum safety.



Failure to comply with the standards outlined in this manual could result in fire and/or serious injury.



RMB EV is not liable for any damage or injuries caused by unsafe or faulty repairs. Any repairs made to this product by unauthorized service technicians are the sole responsibility of the owner.



Our products are designed to be ecologically conscious, please dispose of used batteries in compliance with local laws.

## WARNING

THE RMB FLEX 500 IS NOT A TOY AND SHOULD NOT BE OPERATED BY ANYONE UNDER 12 YEARS OLD.

### Safety Instructions:

(Please take note of the following before each ride)

- The maximum weight capacity is 275 lbs.
- Only one person at a time should ride.
- Always wear protective gear including knee and elbow pads and an approved safety helmet when riding the Flex 500.
- Before riding, be sure to check that all pivot points, locking buttons, quick releases, and latches are secured properly.
- The power switch lock must be in the “off” position when the Flex 500 is being charged.
- Do not use the Flex 500 when it is raining.
- Do not place the battery near heat or fire.
- Do not expose the charger to water or any moisture.
- Check if batteries are properly charged and installed.
- Charge Batteries after each use.
- Always ride on dry paved surfaces. Gravel, wet and uneven surfaces are a hazard.
- Check if all tires are properly inflated. Low tire pressure will decrease range and power.

# List Of Parts

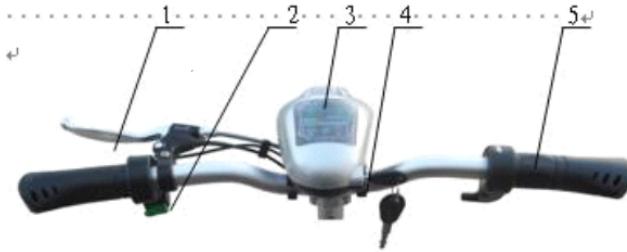
Flex 500



- 1 Throttle
- 2 Multi-function Instrument
- 3 Brake lever
- 4 Alloy handlebar tub
- 5 Quick release
- 6 Connecting tube
- 7 Seat
- 8 Battery & controller compartment
- 9 Balancing wheel
- 10 Footboard
- 11 Rear wheel
- 12 Power connecting plugs
- 13 Allen set screw
- 14 Front fender
- 15 Front fork
- 16 Motor
- 17 Front wheel
- 18 Basket
- 19 Charger port

# **Front Bar**

**Flex 500**



- 1 Brake lever
- 2 Horn switch
- 3 Multi-function Instrument
- 4 Key switch
- 5 Throttle

# Tool Kits In The Tool Bag

Flex 500



- 1 Screwdriver
- 2 Allen wrench ( 2.5mm )
- 3 Allen wrench ( 3mm )
- 4 Allen wrench ( 5mm )
- 5 Allen wrench ( 6mm )
- 6 Wrench (8 x 10mm)
- 7 Wrench (16 x 18mm)
- 8 Wrench (16 x 18mm)
- 9 charger

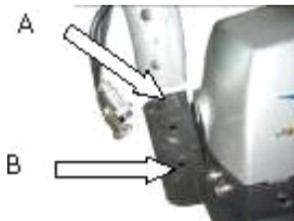
# Assembling The Flex 500

Flex 500

1. Unpack the Flex 500 carefully so that you do not misplace any of the parts.



2. Place the Flex 500 on a flat, level surface. Block the front up 3.5". This will make the next step easier



3. Remove the bolts and nuts from the connecting tube clamp (B). Place the connecting tube into the top opening (A). After aligning the holes, place the two bolts through the connecting tube and neck assembly. Twist the bolts, do not hammer them through. Tighten these two bolts with the nuts provided.



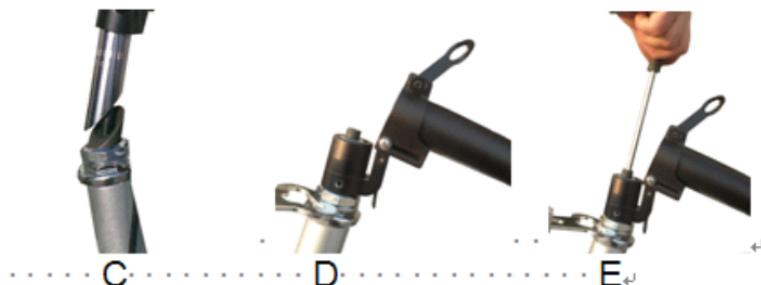
# Assembling The Flex 500

Flex 500

4. The two Allen set screws on the front of the connecting clamp are for removing any play after the bolts have been tightened. First, back off the nuts, second, set the screws, third, tighten the nuts to prevent the screws from backing off.



5. Extend the handle bar tube to full upright position, and slide it into connecting with the front fork.



\*Note: The tube shaft is intentionally off center to allow handlebars to fold to the side. Be sure to align release button to pivot on brake handle side

# Assembling The Flex 500

Flex 500



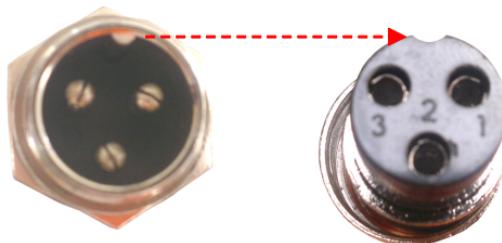
6. Ensure that the handlebar is facing front, the brake on the left side and the throttle on the right, then tighten the handlebar tube collar clamp using the enclosed 5mm wrench.
7. Plug in the two power connecting plugs into the sockets. The design of each plug and socket is different. Connect the ones which best fit each other to finish the assembly.



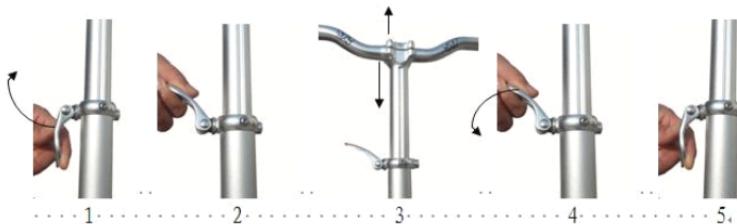
8. Match the pins of the plugs to the holes of the sockets. Note the alignment notches.

# Assembling The Flex 500

Flex 500



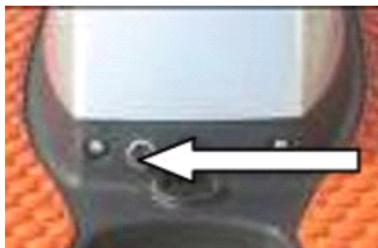
**NOTE:** Handle bar height adjustment. Handle bar height can be easily adjusted by opening the quick release on the handlebar tube to preferred height, then firmly closing quick release.



# Charging The Batteries

Flex 500

- Before you ride the Flex 500 for the first time you must charge the batteries for 4-6 hours using only the supplied charger.
- To charge the batteries, plug the charger into the charger socket located on the rear side of the battery/controller compartment. Then plug the charger into a wall outlet. Red light on charger indicates charging, green light indicates charged.



## Riding The Flex 500

Flex 500

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- Once you have completed the initial charge you are ready to ride. Remember, this is not a toy. The Flex 500 can reach speeds up to 15 mph depending on the terrain and the weight of the rider. You must wear a helmet and protective pads. Be aware of all local laws and ordinances that govern and/or restrict the use of powered scooters. The laws and ordinances vary greatly from municipality to municipality. It is your responsibility to know and abide by your local restrictions.
  - To ride, insert the key into the key switch and turn the key in clockwise direction till the first click. The battery gauge will be illuminated indicating that the battery is in operation. If you want to turn on the front light, please turn the key to the second click in clockwise direction.



- Hold onto the front bar with both hands. Your left fingers will control the brakes and your right

hand will control the throttle. As you turn the throttle towards yourself, the speed will be increased. Release the throttle and apply the brake to stop the scooter. You will control the speed of the scooter by using both the throttle and the brake. When the brake handle is squeezed it cuts power off the throttle.

**NOTE 1:** WARNING: Never try stunts. Always maintain a safe speed.

**NOTE 2:** When scooter is parked, please remove the key, this will avoid anyone from accidentally turning the throttle causing the scooter to speed forward. Failure to do this could lead to an accident.

**NOTE 3:** If you need to stop in an emergency or kill power quickly, you can turn the key off.

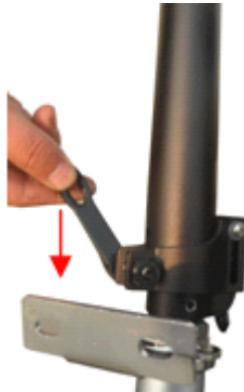
**NOTE 4:** Depending on skills of the driver, the Flex 500 comes equipped with an adjustable speed switch located at the back of the scooter by the charge port which allows you to limit speed to 8mph or switch to max speed of 15 mph.



# Folding The Flex 500

Flex 500

1. Turn off the key switch
2. Press the quick release to bottom.



3. Lift the clip bar, at the same time pull the handlebar tube.



# Folding The Flex 500

Flex 500

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- 4. Lift the connecting tube (which is also attached to the handlebar tube).



- 5. Carefully place the handlebar tube on the footrest frame

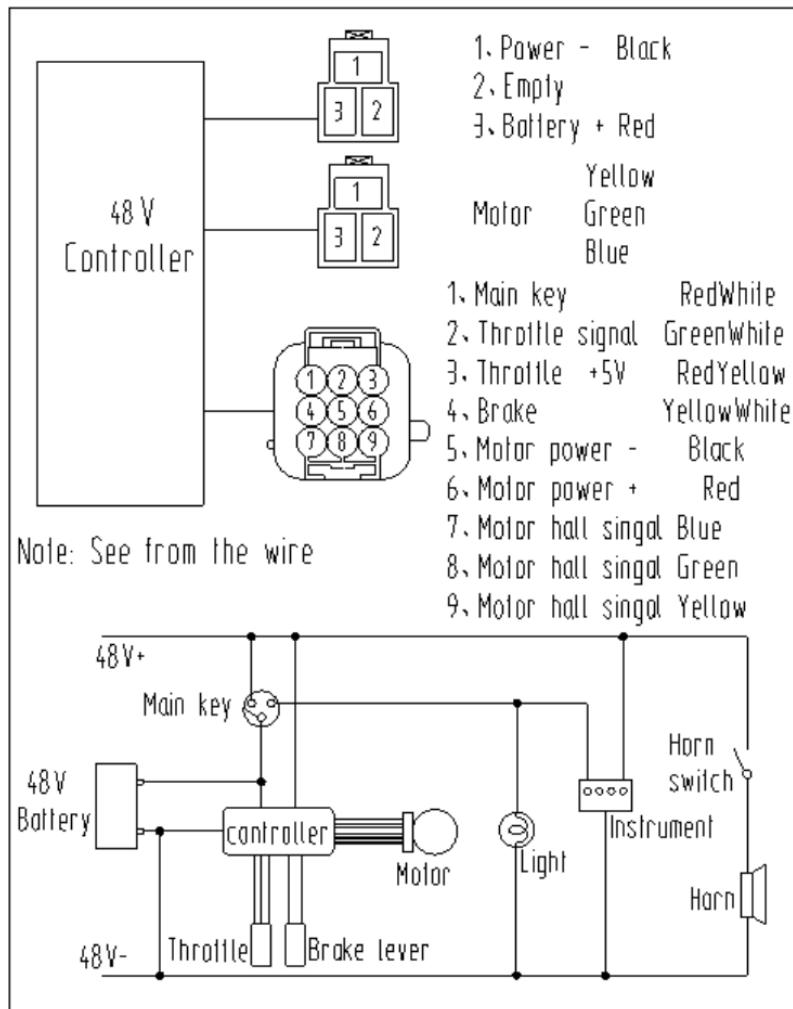


## **Battery:** (for professional use only)

The RMB Flex 500 is powered by 4, 12 volt, rechargeable batteries housed in a single compartment. Other than recharging, these batteries need no maintenance. To prolong battery life, recharge the battery after each use. You must also charge your Flex 500 if it has not been used for 30 days or more. If you need to replace the battery pack, it is located inside the battery compartment on the footboard. To get to the battery pack, remove the compartment cover by loosening the screws. To remove the batteries disconnect the wires from the battery terminals. Replace the battery pack with a new one and reconnect the wires. Follow the instructions on charging batteries to charge the new batteries.

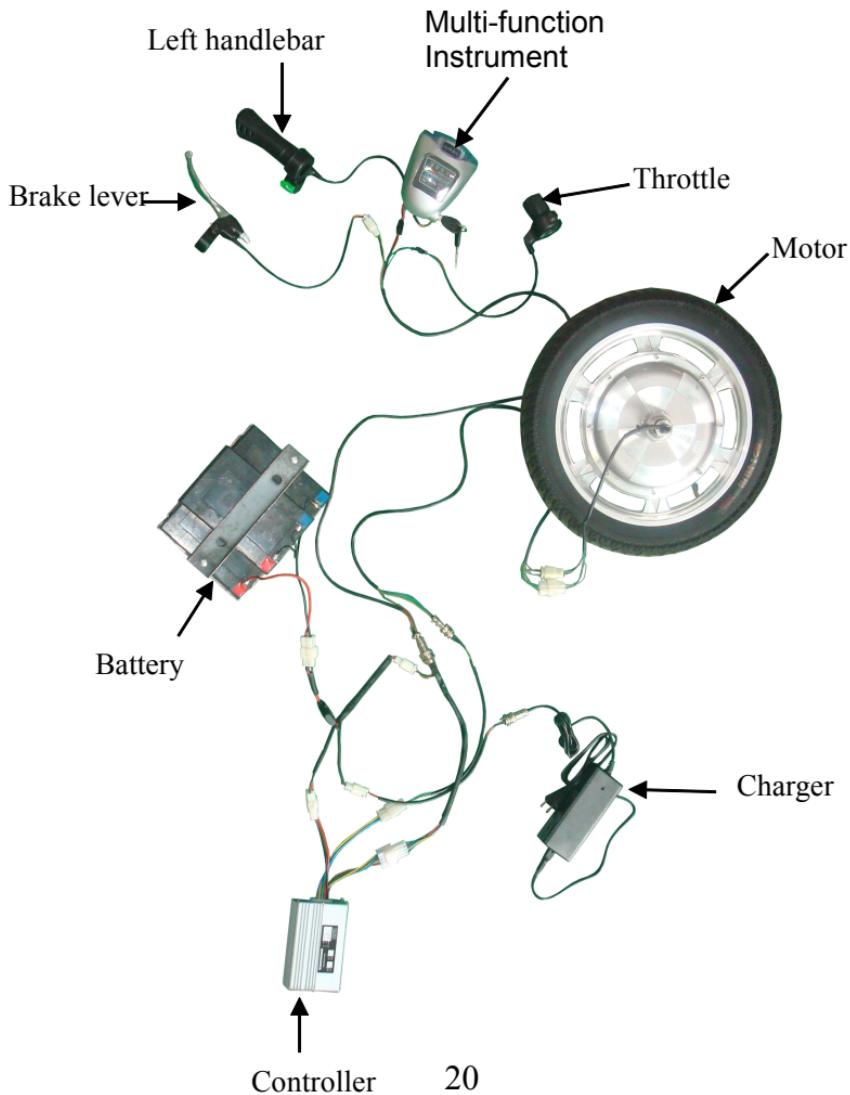
# Wiring Diagram

Flex 500



# Wiring Diagram

Flex 500



# Trouble Shooting Guide

Flex 500

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Problem	Cause	Solution
The power light on the instrument does not illuminate when the Flex 500 is on.	1. Battery is discharged. 2. Loose connection inside Flex 500. 3. Fuse is blown. 4. The instrument is defective.	1. Recharge your Flex 500. 2. Remove the screws that hold the battery compartment cover and raise the cover. Visually inspect all wire connections making sure there are no loose wires, reconnecting those that are. 3. Replace the fuse. 4. Replace the instrument.
The power indicator on the instrument illuminates but Flex 500 still does not work.	1. The throttle handle is not operating properly.	1. Replace the throttle handle. Call Customer Service to order a new throttle

# Trouble Shooting Guide

Flex 500

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Noise coming from motor	1 The motor sensor is defective.	1. Call Customer Service to change a new sensor
When the brake lever is squeezed the Flex 500 does not stop.	1. The brakes are not adjusted properly.	1. Adjust the brake by loosening the bolt on the rear brake wheel, pull the cable and retighten the bolt.
Scooter is losing speed.	1. Low battery 2. Battery is defective. 3. Low tire pressure.	1. Recharge your battery for 4~6 hours. 2. Replace battery. Call Customer Service to order a new battery. 3. air tires up to correct pressure.

## **Warranty**

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**Flex 500**

The Limited Warranty does not cover or apply to the following: Normal wear and tear; any damage, failure and/or loss caused by accident, misuse, neglect, abuse and/or failure to follow instructions or warnings as stated on the product or in the applicable owner's manual or other printed materials provided with the product; damage, failure and/or loss caused by the use of the product in any other manner for which such products were not specifically designed.

RMB EV warrants the Flex 500 for six (6) months according to the following terms. Batteries and tires are warranted for three (3) months. This warranty extends to the original retail purchaser only and commences on the date of the original retail purchase. Any part of the RMB EV product manufactured or supplied by RMB EV and found in the reasonable judgment of RMB EV to be defective in material or workmanship will be repaired or replaced by an authorized RMB EV service dealer without charge for parts or labor. RMB EV is responsible for the expense of delivering the warranty replacement parts. However, if the customer chooses not to replace

the parts, the **expense of delivering the Flex 500 to the factory / authorized service dealer for warranty work or the expense of returning it back to the owner after repair/ replacement will be paid for by the owner.** RMB EV's responsibility in respect to claims is limited to making the required repairs or replacements and no claim of breach of warranty shall be cause for cancellation or rescission of the contract of sale of any RMB EV product. Proof of date of purchase will be required by the dealer to substantiate any warranty claim. An authorized RMB EV service dealer must perform all warranty work. The warranty is limited to thirty (30) days from the date of purchase for any RMB EV product that is used for rental demonstration, commercial purposes, or any other income producing purpose. This warranty does not cover any RMB EV product that has been subject to misuse, neglect, negligence or accident, or has been operated in any way contrary to the operating instructions as specified in RMB EV's owner's manual. This warranty does not apply to any damage to RMB EV products that is the result of improper maintenance or to any RMB EV product that has been altered or modified so as to adversely affect the products operation,

performance, or durability, or that has been altered or modified to change its intended use. This warranty does not extend to repairs made necessary by normal wear and or by use of parts that are incompatible with RMB EV products. In addition this warranty does not cover items that experience normal wear and tear. RMB EV reserves the right to improve the design of the product without assuming any obligations to modify any product previously manufactured. All warranties are limited in duration to the six (6) months warranty period. Any such implied warranties including merchantability, fitness for a particular purpose or otherwise are disclaimed in their entirety after the expiration of the appropriate thirty day warranty period. RMB EV's obligation under this warranty is strictly and exclusively limited to the repair and replacement of defective parts and RMB EV does not assume any other obligation. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not

apply to you. RMB EV assumes no responsibility for incidental consequential or other damages including but not limited to expense of returning the Flex 500 to an authorized service dealer and expense of delivering it back to the owner, mechanics travel time, telephone charges, rental of a like product during the time the warranty service is being performed, travel loss, or damage to personal property, loss of revenue, loss of time, or inconvenience.

Some states do not allow the exclusion or limitation of incidental or consequential damages so the above limitations may not apply to you.

### **WHAT RMB EV WILL DO:**

RMB EV will, at its sole option, either repair, replace or refund the purchase price of any unit that does not conform to this limited warranty. RMB EV may choose at its option to use functionally equivalent reconditioned, refurbished or new units or parts or any units. You are responsible to get the unit back to RMB EV.

# **Warranty**

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**Flex 500**

## **HOW TO GET WARRANTY SERVICE:**

To obtain warranty service, please call or fax to the following telephone numbers for RMB EV Customer Service - warranty repair

Tel. 1-707-568-3333 or Fax.1-707-526-1409,  
Email: [info@rmbev.com](mailto:info@rmbev.com)

## **DO NOT RETURN YOUR PRODUCT TO ANY ADDRESS.**

Please call, email, or write for the location of the RMB EV authorized service center nearest you and for the procedures for obtaining warranty claims.