



MOBILE MACS
RENTAL SPECIALISTS

MOBILE MACS

eBIKE USER MANUAL



KEEPING YOU MOVING

The Mobile Macs Team



GETTING STARTED

1. Adjust the seat to fit your body size. The seat should be high enough that your legs are slightly bent when you are in the down stroke of pedalling. Balance and comfort are the keys to a safe ride.
2. Be sure the battery is fully charged. Then turn on the power switch.
3. Begin pedalling, as this will conserve the battery charge. It takes a lot of battery power to start from a dead stop. Use the electric feature only when you need to get up a tough incline or simply need a break from pedalling.
4. Engage the battery power by using the throttle on the handle- bars. It will disengage when you take your hand off the throttle.
5. To increase your speed, first pedal to your desired speed and then engage the throttle. This will conserve your battery power for those tough hills.
6. Apply brakes to slow down or stop.
7. Turn off the power switch when done riding.

ELECTRIC BIKE SPECS

FRAME:	Aluminium Alloy 6061
SIZE:	26"
RANGE:	80-120KM using both batteries
MOTOR:	350W brushless motor
SPEED:	25-40km/h
BATTERY:	48V 10Ah 48V 15Ah
CHARGER:	AC100V-240V,54V 2A
GEAR:	Single speed

CLIMBING ABILITY:	≥12°
CHARGING TIME:	4-5 h per battery
BRAKE	Drum
TYRE:	20*2.125
TIRE:	20x2.215/3.0"
MAX LOAD:	240kg incl. person
NET WEIGHT:	45 bike only
SUSPENSION	Fork
DISPLAY:	LED
LED FUNCTION:	Delivery
HANDLEBAR:	Aluminium Alloy



TIPS

Follow bicycle and traffic laws. Wear your helmet and obey all traffic signals. Maintain the same speed when using the battery. You will go further and use less energy than if you simply try to go fast. Stop pedalling and coast for a few seconds. Coasting helps save battery power and will slightly charge the battery.



WARNINGS

Never begin the ride with speed.
A fast pace will drain the battery and distance will be lost
Do not charge the battery when there is lightning.
Immediately unplug to avoid blowing the charger.



GETTING TO KNOW YOUR eBIKE

Someone using an eBike will sometimes tend to treat it like a conventional bicycle. But there are small, yet subtle differences: the bike weighs a little more, it can reach higher average speeds thanks to the extra thrust and the handling characteristics demand different skills. That's why it may be advisable for those new to the eBike to do a riding course.

To ensure your safety Mobile Macs has compiled some important eBike riding technique tips for beginners. Before you set off, on the eBike, as for all technical products, the following rules apply:

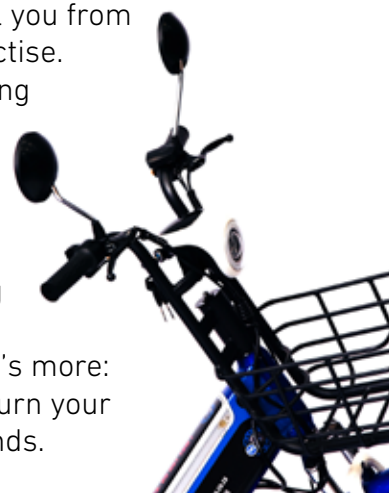
First you should take some time to get to know your eBike and its special features. Then you can go for your first spin on the eBike – for example on a parking lot or an open field – to test the handling characteristics in practice.

BRAKING

Two safety aspects in particular have to be considered: Given the comparatively high speed, good brakes and correct braking technique are essential. So, test this on an open stretch before you go riding around.

Correct Braking: The higher average speed and extra weight of the motor and drive demand that the eBiker be always ready to brake. You can ensure the shortest possible braking distance by the simultaneous use of the front and rear brakes. The biker should always be aware which lever activates which brake and how the bike reacts. After all, if incorrectly used the front wheel brake can hurl you from the saddle. This means you have to practise, practise, practise. In this way you will then gradually find the optimum braking pressure.

It's not only the brake lever which affects the braking but also the road surface: on snow, gravel in particular the eBiker should apply the front wheel brake in a measured fashion. Balance and cornering Stop-and-go traffic travelling at moderate speed is always on the cards on the roads. But keeping to your lane is also a matter of practice. What's more: you must keep your eyes on the road ahead and actively turn your head and your body into the curve when going around bends.



TYRE PRESSURE

To ensure a good travelling range and stability when going around bends the tyre pressure is crucial.

Maximum 1 bar of pressure in each tyre (as per the instruction sticker on the bike).

NB! Please ignore the tyre pressure on the casing side of the tyres.



SPEED

Electric cars “whoosh” by almost without making a sound. With eBikes it’s similar. In addition, road users have to get used to greater speed – in the case of eBikes they are faster by about one to four kilometres an hour. That’s why it’s important to be attentive and ensure that you are ready at all times to react appropriately to unforeseen situations.

The eBiker should adapt the speed to the relevant situation and should avoid dangerous situations.

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BALANCE AND CORNERING

Stop-and-go traffic travelling at moderate speed is always on the cards on the roads. But keeping to your lane is also a matter of practice. What’s more: you must keep your eyes on the road ahead and actively turn your head and your body into the curve when going around bends.

Overcoming obstacles Kerbs and potholes are an everyday hazard for cyclists. The best thing to overcome them is by relieving the load on the front wheel: to do this, move your upper torso in the direction of the handlebars just before you reach the edge and suddenly shift your body’s weight upwards.

This manoeuvre requires some practice until it’s routine. If you feel unsure or the obstacle is too high, simply dismount briefly. To practise this, you can use a low kerb or a small stick on a practice area. The important thing is not to pull on the handlebars too vigorously. If you still tend to lean backwards, simply use the rear brake and the front wheel will sink to the ground again.

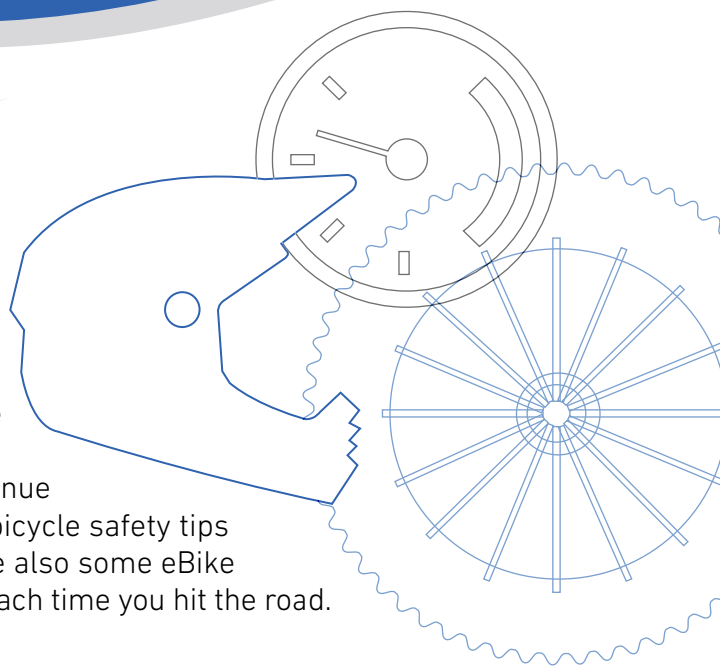
The general principle is that it is best to approach kerbs at right angles. This will make sure that you don’t skid. The general principle is that it is best to approach kerbs at right angles. This will make sure that you don’t skid.





SAFETY TIPS

Electric bicycles are a great way to get around, save money and protect the environment. But as simple as eBikes are to ride, they still require attention to bicycle safety practices to ensure your ride can continue safely for as long as possible. Many electric bicycle safety tips are similar for standard cycling, but there are also some eBike specific tips that you should pay attention to each time you hit the road.



1. Wear a helmet

This tip is simple but could save your life one day.

2. Use your lights

Most deadly bicycle accidents happen at night. How do you protect yourself when the sun goes down? It's simple: put your lights on.

Use at least one blinking front (white) and rear (red) LED light on your eBike. Anything that makes you more visible at night will greatly decrease your chances of being hit by a car.

3. Use warning devices

Use the horn on your bike for warning pedestrians and cars.

4. Ride on the proper side of the road, with traffic, not against it

This might sound obvious, but a lot of people believe it's better to ride against traffic so that you see cars coming towards you and they can't sneak up and hit you from behind. However, that type of rear end bicycle collision is incredibly rare compared to all other types of bicycle accidents. Stick to riding with traffic and not against it.

5 Take the lane

On an eBike, ride in the lane if you can travel the posted speed limit of the road. Traffic in many urban areas, especially downtown and business centres, rarely surpasses 50-60kph, and is often much less during peak hours due to stop-and-go traffic. It's much safer for you to ride in the lane with the cars so that they can see you than trying to hug the curb and getting passed by cars.

Also, when cars pull out onto the road, they check the middle of the road for other cars and often miss a bicyclist who is riding on the extreme edge of the road. Giving yourself more space between you and the curb also provides you with room to work with should you find yourself needing to make any sudden evasive manoeuvres. Lastly, it removes the chance of getting 'doored' by a parked car, which happens when a parallel parked car opens its door before you have a chance to move out of the way. At low speed these collisions are annoying and result in damages; at high speed on an eBike they have been known to be deadly.

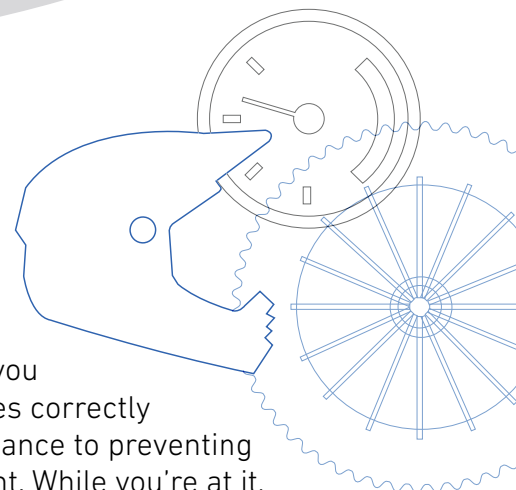


6. Keep your tyres properly inflated

Not only does this help you improve your eBike range, but it will also give you better control should you need to react quickly to avoid a collision. Keep your tyres correctly



inflated so you have the best chance to preventing a crash when milliseconds count. While you're at it, check your tyre tread and make sure your tyres aren't worn. Worn tyres and eBikes are a bad combination due to all that extra power you're packing. You don't want to lose grip with the road when you need it most (or pretty much ever, for that matter).



7. Be a defensive driver

Ride defensively and always be on the look-out for cars, other bikers, pedestrians, and dogs. Make sure others know what you are doing by signalling a turn.

8. Watch out for drunk drivers



Be extra careful on weekends, especially Friday and Saturday nights. This is when drunk driving gets worse.

Don't YOU drink and ride either!

9. Use a mirror

You ARE much more likely to be hit from behind if you suddenly swerve out into the lane to avoid something in the road. Use your mirror.

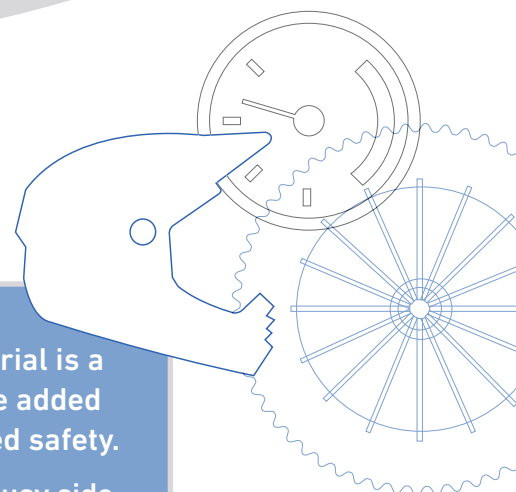


Always try to look behind you or check in your mirror before moving further out into the lane. Compact cars are getting quieter and ever more popular electric cars are nearly silent. You often have no idea a car is coming up behind you and accidentally moving out in front of one is much more common than you might guess.

10. Make eye contact with other drivers, especially at intersections

Many bicycle accidents occur at intersections simply because a cyclist wrongly assumed a driver saw him. Never assume a driver knows you are there unless you specifically make eye contact with him. Intersections are dangerous places for bicycles/eBikes so it's vital that you do everything you can to ensure other drivers know you are there.

Riding an eBike should be a pleasurable experience. Staying safe is your best bet to keep it that way.



TIPS

Hi Visibility Clothing: Bright clothing with reflective material is a great way to make sure others see you. Mobile Macs have added reflective branding to your bike and your helmet for added safety.

Find a safe route to ride: Choosing a biking route on less busy side streets or bike/pedestrian pathways is a great way to stay safe.

WATCH OUT FOR OTHERS

Cars

A good rule of thumb is to always think that a car driver cannot see you. Be on the look-out for cars in intersections and try to estimate where they are going. Remember that they don't always use their turning signals!

If you are riding in a bike lane on the side of a road always be prepared for a car to pass you and then turn right in front of you. Sad to say it happens, but if you are aware of it you can be prepared to hit the brakes.

Also be aware of parked cars. There is the possibility that someone in the car could open their door as you ride by. Watch for people sitting in parked cars and give them enough room so that an open door won't be a problem.

Other bikers

Watch out for rogue bikers on the roads and pathways! You may see other bikers riding the wrong direction in the bike path you are in, you may see them on the sidewalks (generally a bad idea), they may be riding with no lights at night, they may be weaving in and out of car traffic, or going through stop signs or red lights.

Overall, watch out for these types of riders and steer clear!

Pedestrians

Be careful when riding by pedestrians. Use your hooter within enough distance to not startle them when you go by. Slow down a bit and say "Hi". Be especially careful if they have a dog and give them time to pull their dog close to them.

Sometimes you may come across a walker or runner with headphones on. Do your best to let them know you are there with your hooter and voice. In some cases, they will not hear you and it is best to go by them slowly.

Dogs

Sometimes you may run across a dog that is on the loose. If the dog starts to chase you, try not to panic. Tell it to go home. Keep riding and gradually pick up speed if it is safe to do that. Eventually the dog will reach its' territorial limit and stop to return home.

If you have a water bottle handy and you have the coordination skills, you can try spraying the dog with water. It's effective and a harmless way to confuse the dog.



BE PREPARED FOR ROUGH ROADS

Potholes and cracks in the road

Watch out for these! In general, these can be a big problem for bike wheels. If you ride in an area that has a lot of these then I would recommend using wider tires for your bike because they can roll over potholes and cracks better than skinnier tires.

Always try to avoid getting your tire stuck in a crack (parallel too) because it is very hard to get out of it without crashing!

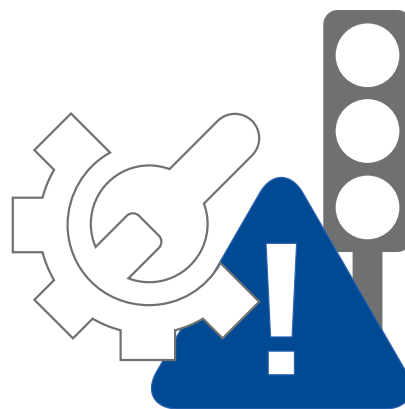
Gravel on the roads

This can be an unpleasant surprise when you are cornering or when you need to hit the brakes. Loose gravel or dirt on the roads should be treated with caution and I recommend lightly using your brakes in these conditions. In some situations, a crash may be inevitable.

Keeping your head up and scanning the road ahead will help you see any gravel or loose dirt in the road and prevent crashes.

Wet conditions

When the streets are wet it's best to take the slow ride. If you hit the brakes hard you could slide out and cornering hard could result in the same less than favourable result of landing on the pavement. In addition, your brake pads may be wet which will result in weak brakes, taking longer to stop.





ENJOY THE RIDE!



RULE: OBEY ALL TRAFFIC SIGNALS AND SIGNS

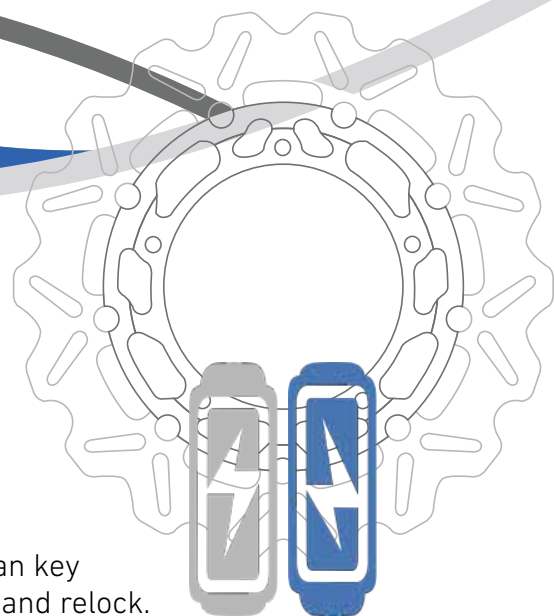
Rolling through stop signs, proceeding through a red light or entering a crosswalk when pedestrians are present are all traffic violations whether you're in a car or on a bike. To be safe and follow the rules of the road, you should always obey all traffic signals and other signs on the roadway just as you would when operating any other vehicle.

RULE: YIELD BEFORE TURNING OR MOVING TO THE LEFT SIDE OF YOUR LANE OF TRAVEL

There are times when you will need to move to the left side of the lane to avoid an obstacle or to make a left-handed turn. When doing so, it's important to always yield to approaching vehicles moving at a higher rate of travel to avoid a collision. Hold a straight line and proceed to claim your space on the road once it is safe.

RULE: ALWAYS USE HAND SIGNALS

While vehicles are equipped with blinkers and brake lights, cyclists must use hand signals to let those around them know when they're making a turn, stop or lateral movement in the roadway. This helps keep you safe as a cyclist and avoids an unnecessary collision.



TROUBLESHOOTING

1. Unable to adjust seat height

Use key to unlock seat, flip seat upwards. Use Allan key supplied to adjust seat. Flip seat into flat position and relock.

2. eBike not turning on, no display on monitor

Remove 1 battery at a time and charge for approx. 4-5 hours per battery. There is a front battery and a back battery. Or simply charge the battery while still in the bike, when the not in use. (see point 3 & 4, for reference).

3. Difficulty removing back battery

Use key to unlock seat, flip upwards. Disconnect battery unplug. Lift battery using handle. Remove and charge. Red light indicates charging, green light indicates battery fully charge. Follow same process to install battery back into the bike.

4. Cannot access front battery to remove and charge

Use key to unlock battery housing, use finger grip to squeeze and open lid. Remove and charge for 4-5 hours until charging light goes green.

5. Battery is going flat quicker than anticipated

NB: 1st battery charge to be done overnight for at least 16 hours.

Avoid leaving the bike in the sun, this drains the battery.

Always pedal when starting to move forward, failing to assist by pedalling drains the battery.



Only use the USB charger provided on the bike, do not add in other devices as this will shorten the battery charge.

6. Braking is causing a loss of balance on the bike

Left brake activates the back break used for turning.

Right brake activates the front brake used for stopping or slowing down.

7. How to stop the bike from falling over when stationary?

Release safety clip by pushing backwards. Once released, engage stand by applying foot onto footplate and pushing down towards the ground. Lift bike slightly to allow stand to move under the back wheel into the upright position fully. Engage safety clip again to keep stand in upright position.