

TESLICA



## Force X1H

# ELECTRIC BIKE USER MANUAL



# CONTENTS

Product Safety Notice.....	02
Warning Message.....	03
Package Contents.....	04
Product Overview.....	05
Assembly.....	06
Computer Display.....	12
Folding Your E-Bike.....	16
Battery.....	18
Setting Up For Your Perfect Fit.....	24
Before You Ride.....	28
Maintenance.....	29
Replacement Part.....	31
General Tips.....	31
Troubleshooting.....	33
FAQS.....	35
Limited Warranty.....	36
Contact information.....	39

# Congratulations on your purchase!

**This user manual will help you assemble  
and operate your new electric bike. Be  
sure to read all of the information in  
this manual before riding.**



# Product Safety Notice

## Don't Ride Until You Read This:



Always wear a helmet when riding your electric bike.



Keep the 2 keys in a safe place. If the unique keys are lost, you will not be able to turn on the bike or replace the battery.



If necessary, you should get more spare keys (We don't have a backup key).

Make sure your e-bike has a full battery before taking it out for the 1<sup>st</sup> ride.



Always be aware of local road laws, and follow them.



Do not ride the bike under the influence of drugs or alcohol.



Always respect pedestrians.



Avoid riding in wet conditions. The electric bike may slide from under your feet causing injury. Wet conditions may damage the electronics and void the warranty.



## Warning Message

1. IP 65 rating water resistance - The Force & Inspire can withstand most rain showers without sustaining damage. The bike has an IP rating of 65. This means it is dust tight and can withstand jetting water.
2. Avoid prolonged exposure to sun or rain and avoid storage in places with high temperatures or corrosive gas.
3. Abuse - We do not cover physical damage due to negligent care and extreme riding.
4. Whenever you ride the TESLICA Electric Bike, you risk severe injury or even death from loss of control, collisions, and falls. Use caution and ride at your own risk.
5. Do not modify the product from manufacturer's original design.
6. Do not exceed the posted speed limit and obey all traffic laws.
7. Avoid touching the charging port directly and do not let it make contact with a metal object.
8. Keep hands and all body parts away from moving parts while operating the electric bike.
9. Before riding - be sure to check the electric bike over and make sure the electric bike is operating correctly before each use.
10. Before riding - be sure to check that the braking system is functioning properly; also be sure to check that all safety labels are in place and you understand the safety warnings.
11. Before riding - be sure that any and all axle guards, chain guards, or other covers or guards supplied by the manufacturer are in place and in serviceable condition.
12. Before riding - be sure to check that the tires are in good condition, inflated properly, and have sufficient tread remaining.
13. Never exceed the 330 lbs. (150 kg) maximum load rating.
14. The electric bike should never be used by children under the age of 16.
15. Maximum Speed - Your electric bike goes at a maximum speed of 32 km/h.
16. Make note that additional insurance may be required to cover situations you encounter while riding an electric bike. It is recommended that you contact an insurance company or broker for advice and consultation.
17. To conserve electricity, use assist mode and avoid zero starting, frequent braking, driving against the wind, carrying heavy loads including other people, and riding with insufficient air pressure.

# Package Contents

Before you open the carton packaging, please check to see if the box is damaged in any way that can compromise its contents. If you suspect its contents may be damaged, please contact your local delivery service right away to file a claim. This is key in case you need a full TESLICA or part replacement due to damage that has occurred during delivery.

Once you've confirmed that your TESLICA box is in good condition, then it's time to open it.

Inside you will find the following items:

- Suspension bike frame/fork
- Front wheel
- Rear wheel with built-in hub motor
- Handlebar and handlebar stem
- Gears/chain
- Brakes
- Saddle and seat post
- Left/right pedals
- Controller unit, inside frame
- Battery
- Battery keys
- Battery charger
- Wheel reflectors

## Assembly tools

3 Allen keys (4 - with Philips head, 5,6mm), 2 crescents wrenched (10, 15mm)

TESLICA and component manuals: Computer display, mechanical or hydraulic brakes, derailleur, Pedals, suspension fork.

**Please contact us right away if something is missing or appears to be damage.**



# Product Overview

1. Saddle
2. Seat post
3. Saddle quick release
4. Rear suspension
5. Disc brake
6. Tire
7. Spoke
8. Motor
9. Free wheel
10. Rear derailleur
11. Chain
12. Handlebar height quick release
13. Pedal
14. Crankset
15. Charging hole (backside)



16. Key/ Battery lock
17. Folding handle
18. LCD screen
19. Handlebar
20. Brake lever
21. Handlebar rotation quick released
22. Handlebar stem with vertical locking mechanism
23. Front suspension fork
24. Disc brake caliper
25. Hub
26. Rim
27. Wheel fixed axle
28. Hidden battery
29. Throttle (default on 750s)



## Assembly

**WARNING:** If you are uncertain about any of the following instructions, or unfamiliar with bicycles or bicycle assembly, you should take your bike and this manual to your local bike shop and have the assembly performed by a qualified bicycle mechanic. Failure to properly assemble your bike could cause one or more parts of the bike to fail or to operate incorrectly, which could result in your injury or death.



### How to assemble the front wheel

1. Remove the fixed axle (27) by unscrewing the nut on both sides and removing the axle from the wheel. If tight, it can be loosened with a 15mm crescent wrench.
2. Remove brake pad spacer from brake caliper, then lift the frame/fork (23) and place the front wheel in the bike's fork to align the axle with fork dropout slots.
3. Make sure that the disc brake (24) is well placed in the middle of the brake caliper.
4. If your bike is equipped with hydraulic brakes, be sure NOT to squeeze the brake lever (20).
5. Insert the axle (27) all the way through.
6. Screw the nuts back onto both sides and very securely tighten the wheel using a 15mm crescent wrench. Then with a torque wrench, tighten to 28-32Nm. Be sure to also tighten the fixed rear wheel axle nut to 30-35Nm.





## Assembly

If something appears to be wrongly assembled - even if you have followed the instructions, please contact us before riding your bike, or take your bike to your local bike shop to have it checked.

**WARNING: Attach the wheel securely. A loose or detached wheel can cause you to lose control of your bike and fall, and could cause you serious injury.**



### How to assemble the handlebar

1. Lift and straighten the handlebar (19) until it is perpendicular to the ground and lock the handlebar stem safety locking mechanism in place.



## Assembly

2. Insert the loose handlebar (19) into the handlebar stem (22) with the brakes (20) facing outward, and hold into place in the handlebar stem groove. Then place the handlebar stem top cap on top of the handlebar. As you screw in the bolts – one on each side of the bar– be sure to leave the same exact spacing between the handlebar stem and top cap on both sides of the handlebar. There needs to be the same amount of handlebar showing on both sides, between the handlebar stem and top cap.

NOTE: if there is not an equal amount of space on both sides of handlebar, then the bar can come loose or threads stripped due to one bolt not being sufficiently long enough when incorrectly installed.

3. When the handlebar is securely in place, tighten both bolts to 6-8Nm using a torque wrench. In addition, for further safety assurance, tighten handlebar stem bolt to 13-15Nm and bar end bolts to 4-5Nm.

4. To raise or lower the handle bar to match your body shape and riding style, simply release the quick release on the handlebar stem, raise or lower accordingly, then flip the handlebar stem quick release securely back into place. Do not raise the bar above the limit lines printed. Doing so will risk your safety.

**WARNING: Make sure that the handlebar fits tightly and securely into the handlebar stem groove and that there is no movement when firmly pushing/ pulling on the bar. In addition, be sure to push down on the handlebar to make sure that the handlebar stem quick release is secure. Failure to do so could result in loss of control of your TESLICA and could cause you serious injury.**



## Assembly



### How to assemble the saddle (seat) & seat post

1. Remove the seat post wrapping.
2. Loosen the seat post quick release (3).
3. Insert the seat post (2) to the desired height before securing it in place with the quick release (3).
4. For safety assurance, tighten the saddle bolt to 22Nm with a torque wrench before you ride.

**WARNING: Do not slide the saddle all the way back on the rails. Specifically, be sure to leave a minimum of 1cm spacing from the edge of the seat post clamp to the beginning of the bend in the saddle rails. In addition, do not raise the seat post (2) above the “minimum insert” line clearly printed on the backside of the seat post (2).**



## Assembly



### Assembling the pedals

1. Each pedal has an “L” sticker or “R” sticker to indicate the left or right side of the bike - as you look at your bike from behind. Otherwise, please check the external edge of the pedal body or inside of the pedal axle where the pedal inserts into the crank arm for the imprinted “L” or “R”.
2. The left pedal is already pre-installed for you. IF you need to remove it, keep in mind that it is removed by turning clockwise - as you look inward towards the crank- and tightened by turning counter-clockwise.
3. To install the right “R” pedal, carefully hand - screw it in, clockwise direction as you look inward towards the crank. Use the largest of the Allen keys(6mm) provided to tighten the pedal in place. Do this by sticking the Allen key in to the pedal via the back side of the crank arm and turning counter-clockwise. Alternatively, you can use the 15mm crescent wrench to tighten the pedal, turning clockwise (see photo).



## Assembly

**WARNING:** If the pedal does not turn smoothly into the crank, do not force it as this can strip the threads of the crank arm. Instead, back it out and try again until it goes in smoothly. In addition, make sure the pedals are tightly attached to each crank arm. Failure to tightly attach the pedals could result in the pedals becoming loose while riding as well as strip the threads. A loose or detached pedal can cause you to lose control of your bike and fall, and could cause you serious injury.



### How to adjust frame-folding lever

If your folding-frame lever does not strongly snap into place when locked, or is not flush against the frame, you will need to adjust the locking mechanism and/or lever-to-frame distance.

#### Locking mechanism

To adjust locking mechanism (perform ONLY if your frame-folding lever does not strongly snap into place when locked or appears to come loose to allow frame to fold):

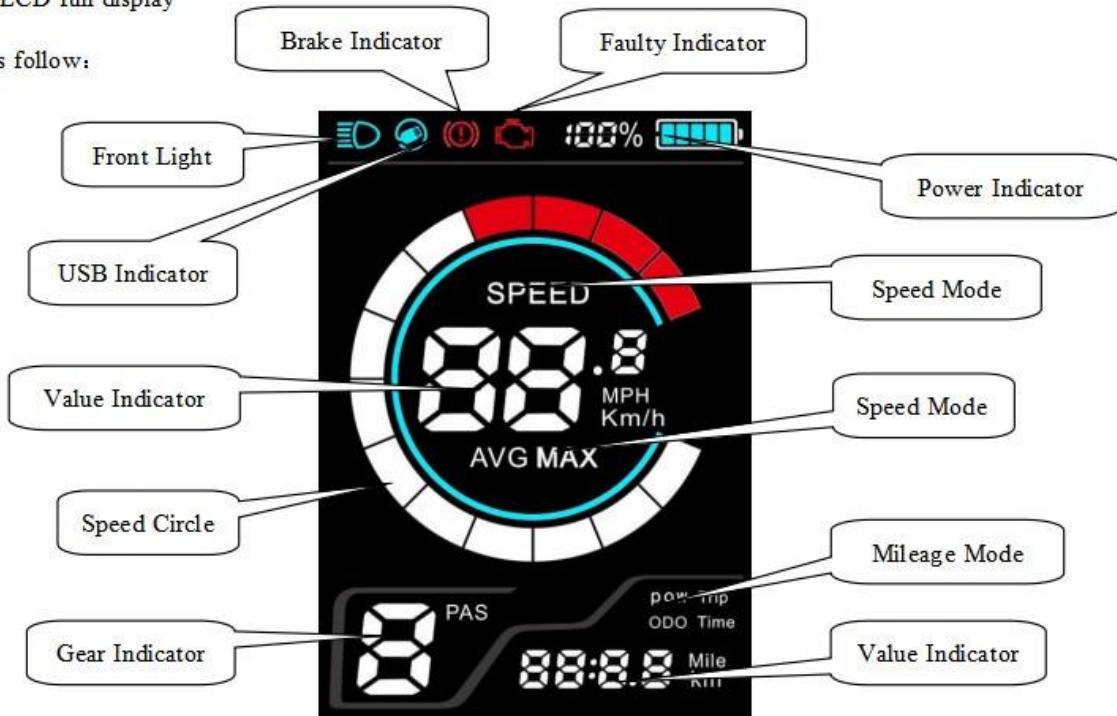
- Slide the mini knob on top of the silver frame-folding lever that releases this handle to open it.
- Once opened, locate the very small black pin that protrudes upwards. It is close to the round silver battery-release button.
- Now that you've located the pin, close the frame-folding lever by pushing it back against the frame.
- Grab a small 3mm size Allen key and stick it into the tiny hole on the underside of the small black pin. Turn it clockwise. You'll know it is the correct direction if the pin protrudes upwards.
- Keep turning until the pin reaches the lever. You'll know you're there when you can no longer turn the pin.



# Computer Display

LCD full display

as follow:



## How to operate the COLOR Display

Turn on display: Press on/off (I/O) button on top right corner of black remote box

Power assist levels: Push + and – on the left side of the remote box to increase/decrease levels

Adjust settings: Double tap on “M” (mode) button on bottom right corner of black remote box.

Toggle between settings using + and – buttons Click on “M” to open selected setting to adjust Click + and – to scroll through adjustment options Click on “M” to exit.

View data: Press “M” 1x to toggle between real, average, max speeds

Charge via USB port: Press and hold “M”. Screen will display USB icon

Turn on light: Hold the + button.

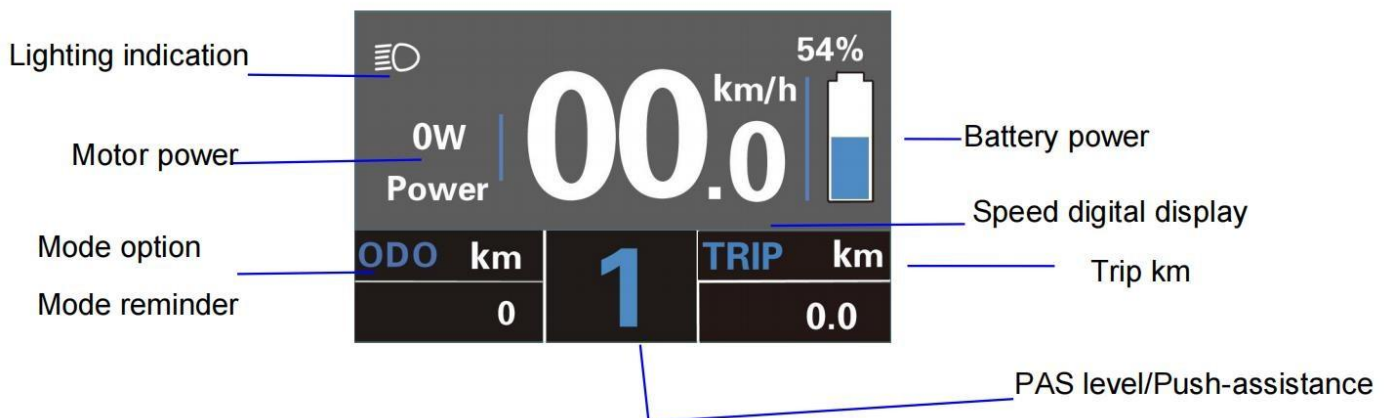
To turn off, hold the + button.

Activate walk assist: Press and hold – button

# Computer Display




## Function Area Distribution:



## How to operate the COLOR Display

Switching the E-bike System On/Off: hold the On/Off button for 3s.

Switching Push-assistance mode ON/OFF: press and hold the “-” button

Switching the Lighting On/Off: press the “+” button for 2s. The display backlight brightness is automatically reduced while the screen displays “”. Likewise, press the “+” button for 2s again, the bike lights can be switched off and display backlight recover its brightness.

Assist Level Options: Press “+” or “-” button to change the E-bike system assist level and change the motor output power. The default assist level ranges from level “0” to level “5”, The output power is zero on Level “0”. Level “1” is the minimum output power. Level “5” is the maximum output power. When you reach “5”, press the “+” button again, the interface still shows “5”, and blinks at “5” to indicate the power maximum. When you are in level “0”, press the “-” button again, the interface still shows “0” and blinks at “0” to indicate the power minimum. The default value is level “1”.



## Computer Display

**Once you've assembled your bike and charged the battery for a full 8 hours straight, past when the indicator has turned green, you're ready to ride!**

Just follow these simple steps, and you're off:

1. Reach down under the bike tube of your bike and turn the key all the way clockwise. To confirm that you are turning in the correct direction, you will see the metal pin protrude from the frame towards the handle.
2. Next swing your leg over the bike to get ready to ride, both feet securely on the ground.
3. Turn on your bike by holding down the upper right on/off button on the little black controller box located on the left side of your handlebar. As soon as the display turns on, release the button. Be aware that the pedal assist will not work if you are holding a brake lever when powering up the bike. If you have pulled on either brake lever when powering up the bike, turn the bike off and restart without holding the lever.
4. You will notice ASSIST on the left side of the display with a number underneath. By pressing the "+" or "-" button you can set your pedal assist to your desired level as these buttons increase and decrease your pedal-assistance. The higher the number, the more assistance you will have.

**Note that you can use your throttle (if installed) and manually shift gears while in any of the PAS levels of "1" and above.**





## Computer Display

5. If you lower the assist level to “0” you will have no throttle or pedal assistance and your bike will function like a normal non-motorized bike. By setting your bike in the “0” position when not in use, you will help prevent forward acceleration caused by accidentally hitting the throttle.

6. By lowering the assistance level to “0”, then continuing to hold down the “-“button, a “P” will appear as your assistance level. The “P” stands for parking so you are able to ride at very low speeds with minimal assistance. It also serves as a walk-assist when pushing your bike uphill. Note that once you set it to “P” assist, the bike will immediately move forward at a low speed.

7. To start your ride, simply start pedaling. It is recommended to begin pedaling with the Assist level set to “1” until you get used to the acceleration. Once you are used to it, then you can also begin pedaling at a higher assist level or simply use the throttle (if installed) for quicker acceleration.

8. When your ride is over, lower your assist level back down to “0”, then hold down the upper right on/off button on the little black controller box located on the left side of your handlebar. As soon as the display switches off, release the button.

9. To lock your bike, turn the key counterclockwise one click and remove the key. If you’d like to remove the battery, turn the key one more click, while pushing inward, to release the handle, open the frame and remove the battery. If your battery is lower than 60% charged or if you need to be sure to have a full charge before your next ride, be sure to charge the battery at this time.

**NOTE: The lower right “M” button controls the USB charger. Push this button before plugging your USB cable into the charger located directly on the display.**



## Folding Your E-bike



1. Pull up the handlebar stem vertical locking mechanism (29) on the handlebar safety locking mechanism (29) to fold the handlebar towards the right side of the front wheel.
2. Remove the key underneath so it is not damaged during the folding process.
3. Next slide the safety button on the locking mechanism's folding handle located in the middle of the frame and pull the handle to fold the frame. Hint: you can use your knee to help easily fold the frame.
4. Open the seat post quick release lever (3) to lower the saddle, first making note of its height using the handy numbered lines on the back of the seat post shaft (2). Once lowered, re-tighten the quick release (3) so the seat post (2) stays in place.

**WARNING: When folding the Force, be careful to always turn the front wheel to the left and do not pinch the cables, as this may damage the cables. Damaged cables can result in loss of control of your bike and could cause you serious injury.**



## Unfolding Your E-bike



1. Pull up the handlebar stem safety locking mechanism (29), located on the handlebar stem (22), to unfold it back to its riding position (See the photo on page 13).
2. Next push the safety button on the metal folding handle (17) on the frame and pull the handle to unfold the frame so that it locks into place.
3. Open the seat post quick release lever (3) to raise the saddle to its original height. Once raised, re-tighten the quick release (3) so the seat post (2) stays in place. If it needs to be more firmly secured, open the quick release lever, tighten nut on opposite side of lever, then re-close lever. Test to confirm that it's secure before hopping onto the saddle.
4. Pull the pedals (13) back into riding position. You will hear a click when they are securely in place.

**WARNING: Do not raise the seat post (2) above the “minimum insert” line clearly printed on the backside of the seat post (2). Raising the seat post (2) above the minimum insert line can cause the seat post to fail, which could in turn result in loss of control of your bike and could cause you serious injury.**

# Battery



The battery (28) is the heart of your bike's main energy source, so be sure to treat it with care at all times. We recommend that you only charge your battery with supplied TESLICA charger.

## Battery functions

1. When key is turned to the "loose" position (16) - battery is ready to be ejected
2. In the "locked" position (which can be found by turning key one click when in "loose" position)  
-battery cannot be ejected and motor cannot be switched on
3. In the "ignition" position, which can be found by turning key two clicks when in "loose" position  
-motor is unlocked as well as LCD screen (18) turns on when pushing the ON/OFF button

**NOTE: When parking your bike, we recommend you lock your battery by setting it on "locked" position, then remove the key.**

## Inserting the battery

1. Open the frame (17)
2. Insert the battery with the ignition side facing down
3. Close the Force's frame
4. Insert the ignition key (16) to secure battery's position in the frame

## Removing the battery

1. Turn off motor by turning key from "ignition" position to "loose" position. To do this, push the key (16) in to turn it all the way to the unlocked "loose" position.
2. Remove the key from the battery/frame
3. Open the frame
4. Slide the battery out of the frame, using the small finger hook
5. Close the Force's frame again (17)

# Charging The Battery

**WARNING: Do not charge the battery with any chargers other than the one supplied with your bike. Using a charger other than the bike charger may result in battery damage and will void battery warranty. Follow all instructions provided with the charger supplied with your bike. Failure to do so could result in damage to your battery or could create a fire hazard that could cause you serious injury.**

## **Charging Directly On Your TESLICA E-bike**

1. Make sure that the motor is turned off (“loose” or “locked” battery position) when charging directly from the bike.
2. Plug the charger first directly into the frame/battery (15), then into the electrical socket.
3. When charging for the first time, it is recommended to charge for 12 hours straight to ensure current is flowing through all cells. See battery cell balancing section below for details on how to do this.
4. When recharging, we recommend a full discharge every 30-40charges—otherwise charging when 20-60% charged is ideal for battery longevity.
5. After a charge cycle has been performed, the actual battery charge may not register immediately after you power up the bike. It can take up to 30 seconds or 1km/.6mi. of riding for the battery to calibrate and display the correct charge amount.
6. When charging multiple batteries/ bikes on one charger, you will need to unplug the charger from the wall before attaching it to the next battery/bike. This will help the charger register the battery BMS to provide a full charge.
7. Note: charging with a speed charger is much quicker, but is not able to reach 100% charge capacity and will impact the longevity of your battery. It is therefore strongly advised that if you are using a speed charger (4/5A) to use it sparingly, and use a regular charger (2/3A) as your main charger unit. In addition, never charge using a charger with more than 5A output. Doing so may damage the battery and will void the warranty.

**NOTE: For both charging methods, make sure the charger light turns green for a brief second when plugged into socket, then directly red. Once light returns to green, your battery is fully charged. You can then unplug the charger.**

# Charging The Battery



## Removing the battery to charge

Simply remove the battery from the frame as explained above and plug the charger first directly into the battery, then into the electrical socket. For further charging instructions, please refer to the enclosed spec sheet inside your charger's box.

## Charging time of the battery

Regular (2.0 A) battery charger:

6 hours\* to fully charge 14Ah from empty to full

\* Depends on current battery usage level, climate conditions, earlier charging cycles.

**IMPORTANT: If your bike will be kept for a long period in extreme temperatures (below 0oC/32oF or above 35oC/95oF), remove the battery and keep it in a place where the temperature is between 4oC/40oF and 32oC/90oF.**



# Charging The Battery

## How to balance the battery cells for a new battery to maximize its range

For a new battery, perform this for your first 3 rides/ charges, regardless of how far you have ridden or the amount of battery that you have used.

1. Charge the battery outside of the bike and leave it on the charger up to 4 hours after the light has turned green but no longer than 8 hours with a 4/5 a speed charger and 12 hours with a 2/3a charger.
2. Disconnect the charger from the outlet first, then from the battery.
3. Go ride the Force like normal using the pedal assist and throttle (if you have one).
4. It is OK to discharge only part or all of the battery before the next charge is performed.
5. Repeat steps 1-3 for 3 rides only.
6. You can use your bike normally after this has been performed.

When to perform this cell balancing:

- When you first receive your Force or a new battery
- If you have stored the battery for long-term
- If you experience a loss in range or charge amount
- To be proactive, you can perform this monthly but NO more than one time per month.

Here are a few key points to know about keeping your battery in good condition and safe:

- Never leave the battery on the charger longer than specified.
- Never leave the battery unattended while charging.
- Never charge the battery when it is cold, be sure to always charge the battery when it is at room temperature.
- Let your battery cool down after a charge before you use it.
- Let your battery cool down after you have used it before you charge it.
- Try not to “Top Off” charge every ride. It is better to discharge the battery between 20%-60% before recharging.
- When storing the battery, always leave it with at least 70% charge and check monthly
- Check your fuse condition regularly, replace if you see signs of carbon buildup or a smokey look like it is burnt
- Never charge the battery if the battery itself is at or below freezing 0°C/32°F. Bring the battery up to room temperature before charging in cold conditions.
- Never charge the battery if it is above 40°C/104°F. Bring the battery down to a cooler temperature before charging.

**IMPORTANT:** Intended operation temperature is between -15° C/5° F and 45° C/ 113° F. If your bike will be kept for an extended period in extreme temperatures (below 0° C/32° F or above 30° C/86° F) or if you plan to store it for long periods of time, remove the battery and keep it in a place where the temperature is between 0° C/32° F and 30° C/86° F. Do also charge the battery first to 70% charge for long storage periods. Do not charge the battery when the temperature is below 0° C/32° F or above 40° C/104° F. Serious damage to the battery could result.



## Battery Usage

To reach the farthest distance on one charge, it is recommended to pedal the Force while the Pedal Assist System is turned ON (18). It will help save the battery.

When battery power is low while riding your bike, it is recommended to pedal as much as possible to minimize battery usage so you can get home on the charge that is left on the battery. Once home, charge it as soon as possible.

To further get the best distance out of your bike, refrain from unnecessary braking; coast as much as possible.

Use the throttle only for short periods of time - and only on flat or rolling terrain, not uphill. Using only throttle for extended periods of time or up hills will cause the battery to quickly drain and possibly over heat the motor which can lead to damage. The moment you notice your motor overheating, immediately stop and power down the bike to let it cool down before continuing with your ride.

Always keep your tire pressure set at the correct value of 2.0 bar (30psi). It is best to check pressure at least once a week.

Periodically check that all cables are in good condition and securely connected.

Be sure to periodically inspect the brake pads to spot if they need to be replaced or are rubbing against the brake rotor (which can significantly lower battery range).

Turn off the power when parking. If you decide to push your bike for any reason, make use of the “walk-assist” option (18) or push it without using the walk-assist.

When pedaling, try to keep a higher RPM (cadence) to further minimize strain on motor from torque overload. When riding uphill, set it to the lowest (easiest) gear possible and help your Force out by putting in at least 60% effort (especially on steep hills).





## Battery Usage

Use the throttle only for short periods of time - and only on flat or rolling terrain, not uphill. Using only throttle for extended periods of time or up hills will cause the battery to quickly drain and possibly over heat the motor which can lead to damage. The moment you notice your motor overheating, immediately stop and power down the bike to let it cool down before continuing with your ride.

Always keep your tire pressure set at the correct value of 2.0 bar (30psi). It is best to check pressure at least once a week.

Periodically check that all cables are in good condition and securely connected.

Be sure to periodically inspect the brake pads to spot if they need to be replaced or are rubbing against the brake rotor (which can significantly lower battery range).

Turn off the power when parking. If you decide to push your bike for any reason, make use of the “walk-assist” option (18) or push it without using the walk-assist.

### **Force battery: Important info**

**Force 500w: Lithium-Ion battery · bike age: 48V · Capacity: 14.5Ah · Battery lifespan: between 600 and 800 charges cycles (before dropping to ~ 80% of charge capacity).**



# Setting Up For Your Perfect Fit

## Saddle height

To adjust saddle height, open the seat post quick release lever (3) located on the frame where the seat post (2) enters. Once loose, adjust the saddle to desired height, then align the saddle so that it is centered (in line with the bike's frame). When desired height is set, firmly tighten the quick release (3) so that the saddle is securely in place. Try to manually move the saddle from left to right to be sure it is firmly secured.

## Saddle fore/aft/tilt position

To move the saddle more forward/rearward or adjust the nose of the saddle to point slightly upward/downward, loosen the bolt located under the saddle, at the top of the seat post (2). You can use the 6mm Allen key provided. Once loosened, move the saddle to its ideal position, making sure to leave a minimum of 1cm spacing from the edge of the seat post clamp to the beginning of the bend in the saddle rails. When desired position is set, firmly tighten the bolt to 22Nm for safety assurance. Try to manually move the saddle up/down as well as forward/rearward to be sure it is firmly secured.

## Note for Force bikes equipped with throttles:

Once the Force is powered ON (18), when the rider presses down on the thumb throttle, the bike will move forward. Do not power ON until you are ready to go.

Squeezing the right (rear) or left (front) hand brake (20), or releasing the throttle, will automatically cut the power to the motor.

When walking with the bike, if you want to use the walk-assist be sure to turn it to "walk- assist" (18) by pressing the assist level arrow down for more than 3 seconds so you don't automatically turn the throttle on and make the bike start suddenly and cause an accident.

**WARNING:** Do not take the battery apart. Do not drop your battery. Do not burn, puncture, submerge in water or damage the battery in any way. Any such tampering with the battery can cause serious injury or death, and immediately voids its warranty. Do not use the battery if it appears to be damaged. In case of any noise, irregular heat or leakage from the battery, cease all use immediately. Keep the battery stored in a ventilated place and out of direct sunlight. Keep the battery stored above 0°C/32°F to avoid damage of battery or excess loss of battery power.



# Setting Up For Your Perfect Fit



## Handlebar height

To adjust height of handlebar (19) to match your comfort and riding style, first loosen the handlebar height quick release (12) located next to the front end of the frame. Adjust handlebar to desired height, making sure to center the handlebar so that it is perpendicular to the frame. Then securely tighten the quick release. Once tight, try to manually move the handlebar from side to side to make sure it is securely in place.

**CAUTION:** You must slide the handlebar stem connecting the handlebar to frame far enough that the series of parallel grooves that mark the minimum insertion level in the tubing are hidden (NOT exposed). Do NOT raise the handlebar higher than this height. If the handlebar stem is not inserted, at minimum, to this line, serious injury or death can occur to the rider.

## Handlebar rotation

To adjust the rotating position of the handlebar (19) to match your comfort and riding style, first slightly loosen one of the handlebar bolts (21) located on the handlebar itself. Rotate the handlebar to desired position, making especially certain that the brake levers (20) are a comfortable reach for safe braking. Before tightening, double check that the handlebar is still centered. Then securely tighten the handlebar bolt (21). Next make sure that the spacing between handlebar stem and top cap is even on both sides of the handlebar. Once firmly tightened, try to manually rotate the handlebar to make sure it is securely in place.

**WARNING:** Make sure the handlebar is securely in place and that the brake levers are comfortably in reach. Failure to do so can result in loss of control of your bike and could cause you serious injury or death. In addition, failure to have an even amount of spacing on both sides of stem clamp between the stem base and top cap can result in a loosened handlebar or stripped threads, both of which can result in loss of control of your bike and lead to serious injury or death.



# Setting Up For Your Perfect Fit

## Suspension adjustment

The front (23) and rear suspension (4) are pre-adjusted for your convenience. To further adjust the front suspension fork's spring preload to match your weight and riding style, simply turn the knob on the top left side of the fork [1]. The top right knob is to lock/ unlock the active suspension. Refer to your fork manual for further information.

## Brakes

Disc brakes (24) are pre-installed on both the front and rear wheels of your Force for braking control.

## Brake adjustment

Note: Before making any adjustments, double-check that the screws fastening the brake rotors are very tight or torqued to 6.2nm.

As you ride, your brake pads will become thinner. With mechanical brakes, you will need to adjust the pads closer to the rotor when this happens. (With hydraulic brakes, the pads will automatically self-adjust closer to the rotors micro-adjustments are usually not needed. But always keep an eye on them so you can replace them the moment they are worn out.) If you are unsure of anything relating to your brakes, please take your bike to your local bike shop for their expert advice.

### **CAUTION:**

- Note which brake lever controls which wheel; left brake lever controls front wheel, right brake lever controls rear wheel.
- Be sure to avoid abrupt or strong braking as it can cause you to fall off your bike. ·When braking, lean your body weight a bit rearward to counter balance the braking inertia.
- Keep an eye on the brake pads for wear as they wear out regularly. If they look as though they are worn out or close to it, please have a bicycle mechanic replace them right away to maintain safe braking control.
- IMPORTANT: Before every ride, test the brakes to be sure they are working well.
- WARNING: Inspect and test the brakes before each ride. Worn, dirty, damaged, or improperly adjusted brakes can reduce your ability to control your bike and could cause you serious injury or death. Do not ride your bike if your brakes are not working properly.



# Setting Up For Your Perfect Fit

## Gears

All bikes come equipped with 8 gears (9). To change gears, simply turn the shifter knob, simply twist the shifter. One click per gear change. The higher the gear, the higher the resistance. Change gears to match your pedaling comfort level. Be sure to pedal when shifting gears to ensure a smooth gear change. In addition, when climbing steep hills, be sure to lower your gearing and increase your pedaling cadence. These recommendations will also prolong the life of your drive train components.



## Gear adjustment

Once on the second sprocket, test using the same method to make sure it goes up smoothly to each of the next larger sprockets, until you are up to the seventh (and largest) sprocket.

When you've successfully reached the largest sprocket, it is now time to make your way down the sprockets back to the smallest one. You will use the same technique, but in reverse. Fastening the brake rotors are very tight or torqued to 6.2nm.

Click once to move the chain from the largest sprocket to the next smaller one. Turn the pedals to test if it shifted successfully. If it did not move to the next sprocket, then turn the barrel adjuster 1/4 turn clockwise to loosen inner wire tension and pedal again to test the shift.

If it still does not shift to the next sprocket, try another 1/4 turn and pedal until it shifts smoothly to the next sprocket.

Once on the second largest sprocket, test using the same method to make sure it goes down smoothly to each of the next smaller sprockets, until you are back down to the smallest sprocket.

If after adjusting the shifting, your Force remains unable to shift smoothly, be sure to check your derailleur hanger to confirm that it is straight. If the bike falls on its side, this is the part of the bike that will take the hit. It is designed to bend inward in order to prevent damage from occurring to the rest of the bike. To make sure that your hanger is straight, and not bent inward or twisted in any way, stand behind the Force and look to see if the hanger is perfectly aligned with the derailleur's pulley wheels. There should also not be any visible bend in the hanger material. If the hanger appears to be bent in anyway, visit TESLICA website to order a replacement.

If you are uncertain about any aspect of your gears or any of these instructions, take your Force to a bicycle mechanic and have the mechanism checked.

## Pedal-Assist

There are 5 pedal-assist level options with the color display (18). When switched to “0”, there is zero pedal assist-completely human-powered. 5 is the highest level of pedal-assistance.

For display operating instructions, please refer to the enclosed display manual

# Before You Ride

**WARNING: Follow this BEFORE YOU RIDE CHECKLIST each time you use your Force. Failure to follow this checklist could lead to an undetected problem that could result in your serious injury or death.**

- **Check that quick release lever (3) for seat post is tightly fastened. Check that bolt of saddle (1) is tight.**
- **Check that quick release lever (12) on handlebar (19) is tightly fastened.**
- **Check that handlebar stem safety locking mechanism (29) is tightly fastened.**
- **Check that folding quick release handle (17) of frame and its clips are tightly fastened.**
- **Check that all other bolts and fasteners are tight, such as for kickstand, front/rear wheels, and brake rotors.**
- **Check for proper functioning of brakes and gears.**
- **Check that battery is fully charged.**
- **Check that battery is correctly installed in the bike and turned on using the**



# Maintenance

## Chain wear

Using a ruler, a new chain (11) should measure exactly 12 inches across 12 links, from middle of pin to middle of pin. If your chain measures past 12 inches for 12 links by 1/16 inches (0.5percent), it is time to replace the chain. If it is past 12 inches for 12 links by 1/8inches (one percent), you may also need to replace the cassette (9) as well. If you are not keen on measuring, you can purchase a chain-wear tool from your local bike shop. And if there remains any uncertainty, it is best to take your bike to your local bike shop.

Be sure to keep your chain and all moving parts lubed so that they work effectively at all times. Lubrication is necessary to use when the moving parts are dry. As for the chain, lubricate the dried chain after every bike wash, as well as after every wet weather ride— especially if there is any salt on the roads. Use a bike chain lubricant made for that purpose. All-purpose lubricants may attract and hold dirt and may reduce the life of your chain.

## Seat post

If the seat post's quick release becomes difficult to close, lubricate the lever's rotational pivot point with thin oil. Open and close it repeatedly until the pivot point loosens and you can securely fasten the seat post.

## Tire pressure

Be sure to check it twice a month at minimum—ideally once a week. We suggest keeping it up to 2.0 bar (30 psi). Riding with too low pressure can result in:

1. Lowered travel range per battery charge
2. Increased wear on the tires
3. Increased risk of a puncture
4. Compromised steering as fat tires within adequate pressure tend to over steer



# Maintenance

## Squeaking brakes

- Rotor needs to be thoroughly cleaned with a rag dipped in rubbing alcohol to remove any oil or residue
- Pads need to be filed down, usually glazed over from debris on the road.

NOTE: When using hydraulic brakes, be sure NOT to pull on the lever while wheel or pads are removed.

- Pads worn out. If the pads are less than .5mm thick, it's time to buy new ones. See your brake manual for more information about your specific model.

## No braking power

- This usually occurs because there is not sufficient brake fluid in the braking system. This can be caused by:
  - A system leak causing fluid to escape. To fix this, please take your bike to your local dealer to fix the leak and replace the fluid.
  - Your Force was turned upside down, causing fluid to migrate to overrun chamber in brake lever. To fix this, return your Force to normal position with both wheels on the ground. Then repeatedly pull brake lever until fluid returns back down to the brake caliper.

## Hydraulic brakes (If installed)

- If you experience a lack of braking power, you can often fix this the same way as you would with mechanical brakes (instructions above). The major difference, though, is that with hydraulic brakes, the pads automatically self-adjust when they wear thin. Hence, distance from pad to rotor due to wear is not a factor with hydraulic brakes. You may also have insufficient braking fluid. Please refer to your user manual for further instruction. NOTE: When using hydraulic brakes, be sure NOT to pull on the lever while the wheel or pads are removed.

If you are not comfortable with doing this work yourself, please take your Force to your local bike shop.

**NOTE: OWNERS ARE RESPONSIBLE FOR ALL MAINTENANCE AND SERVICE OF THE BICYCLE. FAILURE TO DO SO MAY VOID YOUR WARRANTY, CAUSE DAMAGE TO THE bike OR COMPONENTS AND MAY CAUSE AN ACCIDENT.**





## REPLACEMENT PARTS

It is always good to keep spare tires, inner tubes, lube, chain, brake pads on hand as these items wear out most quickly.

If a product is in need of replacement and you are not completely certain how to do this, it is recommended to take it to your local bike shop. This includes cables/housing, bearing adjustments, brake adjustment and wheel adjustments. Be sure to replace parts with original TESLCIA components to ensure optimal level of performance.

**WARNING: As with all mechanical components, the Force is subjected to wear and high stresses. Different materials and components may react to wear or stress fatigue in different ways. If the design life of a component has been exceeded, it may suddenly fail possibly causing injury to the rider. Any form of crack, scratches, or change of coloring in highly stressed areas indicate that the life of the component has been reached and it should be replaced.**

**Failure to repair or replace worn components could reduce your ability to control your Force and could cause you serious injury or death.**



## GENERAL TIPS

1. It is recommended to take your Force for a full tune-up and maintenance check by a bike mechanic on a regular basis, at least once a year. If you ride your often, take your Force in more often.
2. While our bikes are rain and splash-proof, their electrical components should not be submerged in water.



## GENERAL TIPS

3. When washing your bike, use soap and water only. When rinsing with water, use nothing stronger than a normal low pressure garden hose. Be sure to avoid spraying directly into the motor as well as any pivot and connection points or areas where bearings are housed. This includes headset, bottom bracket and hubs. Never use a high-pressure water hose under any circumstances.

4. To prevent corrosion, dry the bike and its components after every we ride. Store the bike and battery in a dry location.

For display operating instructions, please refer to the enclosed display manual.

**WARNING: Do not attempt to open the casings of the battery, motor, or controller. This can be dangerous and will void any warranties by doing so. If you experience a problem, please contact our service department or your local bike shop. Always remove battery during maintenance. Failure to follow these instructions could result in your serious injury or death.**

# Troubleshooting

	Symptoms	Possible Causes	Most Common Solutions
1	<b>The bike does not work</b>	<ol style="list-style-type: none"> <li>1. Insufficient battery power</li> <li>2. Faulty connections</li> <li>3. Battery not fully seated in tray</li> <li>4. Improper turn on sequence</li> <li>5. Brakes are applied</li> <li>6. Blown discharge fuse</li> </ol>	<ol style="list-style-type: none"> <li>1. Charge the battery</li> <li>2. Clean and repair connectors</li> <li>3. Install battery correctly</li> <li>4. Turn on bike with proper sequence</li> <li>5. Disengage brakes</li> <li>6. Replace discharge fuse</li> </ol>
2	<b>Irregular acceleration and/or reduced top speed</b>	<ol style="list-style-type: none"> <li>1. Insufficient battery power</li> <li>2. Loose or damaged throttle</li> <li>3. Misaligned or damaged magnet ring</li> </ol>	<ol style="list-style-type: none"> <li>1. Charge or replace battery</li> <li>2. Replace throttle</li> <li>3. Align or replace magnet ring</li> </ol>
3	<b>The motor does not respond when the bike is powered on</b>	<ol style="list-style-type: none"> <li>1. Loose wiring</li> <li>2. Loose or damaged throttle</li> <li>3. Loose or damaged motor plug wire</li> <li>4. Damaged motor</li> </ol>	<ol style="list-style-type: none"> <li>1. Repair and or reconnect</li> <li>2. Tighten or replace</li> <li>3. Secure or replace</li> <li>4. Repair or replace</li> </ol>
4	<b>Reduced range</b>	<ol style="list-style-type: none"> <li>1. Low tire pressure</li> <li>2. Low or faulty battery</li> <li>3. Driving with too many hills, headwind, braking, and/or excessive load</li> <li>4. Battery discharged for long period of time without regular charges, aged, damaged, or unbalanced</li> <li>5. Brakes rubbing</li> </ol>	<ol style="list-style-type: none"> <li>1. Adjust tire pressure</li> <li>2. Check connections or charge battery</li> <li>3. Assist with pedals or adjust route</li> <li>4. Balance the battery; contact tech support if range decline persists</li> <li>5. Adjust the brakes</li> </ol>
5	<b>The battery will not charge</b>	<ol style="list-style-type: none"> <li>1. Charger not well connected</li> <li>2. Charger damaged</li> <li>3. Battery damaged</li> <li>4. Wiring damaged</li> <li>5. Blown charge fuse</li> </ol>	<ol style="list-style-type: none"> <li>1. Adjust the connections</li> <li>2. Replace</li> <li>3. Replace</li> <li>4. Repair or replace</li> <li>5. Replace charge fuse</li> </ol>
6	<b>Wheel or motor makes strange noises</b>	<ol style="list-style-type: none"> <li>1. Loose or damaged wheel spokes or rim</li> <li>2. Loose or damaged motor wiring</li> </ol>	<ol style="list-style-type: none"> <li>1. Tighten, repair, or replace</li> <li>2. Reconnect or replace motor.</li> </ol>

# Specifications

<b>Model</b>	<b>Force X1H</b>
<b>Battery</b>	48V 14.5 Ah Samsung Battery
<b>Motor</b>	500W Rear Mounted Geared Hub Motor
<b>Display</b>	Colored LCD display with USB charger
<b>Derailleur</b>	Shimano 8 speed
<b>Speed</b>	25km/h
<b>Pedal Assist</b>	Intelligent 5-level Pedal Assist
<b>Throttle</b>	Thumb Throttle
<b>Charging Time</b>	3~4 Hours
<b>Recommended Rider Heights</b>	4.9" ~ 7.0"
<b>Front Fork</b>	Suspension Front Fork
<b>Bike Frame</b>	6061 Aluminum
<b>Brake</b>	F/R HD disc brake
<b>Charger</b>	US Standard 2.0A Smart Charger
<b>Freewheel</b>	Shimano 8 speed 11-32T
<b>Shifter</b>	Shimano triggers
<b>Tires</b>	20"*4.0"
<b>Product Weight/ Total Payload Capacity</b>	68lbs/ 330 lbs

# FAQS

Q1: What if the e-bike arrived missing accessory or broken part?

A1: Please take a photo and send to TESLICA Support Team by sending email:

ebiker@teslica.com and TESLICA Support Team will reply you soon and send correct accessory or part replacement.

Q2. Will my bike arrive assembled?

A2: Your bike will arrive mostly assembled. We'll also provide the tools and a comprehensive assembly video for the rest part.

Q3. What can I do if something goes wrong with my e-bike during the warranty?

A3: We believe that communication is the best way to solve the problem. Please contact us in time. To help you solve the problem as quickly as possible, please describe the problem in detail and provide photos/videos with your order ID.

## Error Code

Error Code	
21	Current issue
22	Throttle issue
23	Power motor issue
24	Power motor signal issue
25	Braking handle issue
30	Communication issue



# Limited Warranty



## **30DAYS SATISFACTION GUARANTEED RETURN POLICY**

If you are unsatisfied with your purchase, TESLICA return policy allows you to return the product purchased on the authorization channel within 30 days counting from the date of receipt of shipment, and request are fund from the authorization Channel.

**Note: Express shipping cost is non-refundable.**

To be eligible for a return, your item must be in the same condition that you received it, unworn, unused, and the bike must have less than ten (10) miles on the odometer, be free of any wear and tear, dirt, dust, fragrance, or any other signs of use and must include all items that were inside the box (charger, keys, hardware, etc.).

### **Over 30 days:**

- **Return is not acceptable;**
- **Accept exchange new product or partial refund.**

We will deduct the shipping fee or restocking \$150/pc when we are making a refund for non-defective products and non-longer needed products.

For the return request, TESLICA is not responsible for lost packages due to the carrier, or products received that cannot be verified.

Received products that have damage determined to have been caused by the end-user maybe subject to denial of the return request.

## TO QUALIFY FOR ARE FUND,

### ALL THE FOLLOWING CONDITIONS MUST BE MET:

1. A Return Merchandise Authorization (RMA) must be requested from TESLICA within 30 days from the date of receipt of shipment. To request an RMA, contact TESLICA Service Team at [ebiker@teslica.com](mailto:ebiker@teslica.com)
2. The cost of return shipping will be paid by the customer.
3. For warranty service, please keep your receipt and/or invoice to validate proof of purchase.
4. Returned product must be in good physical condition (not physically broken or damaged).
5. All accessories originally included with your purchase must be included with your return.
6. If you return a product to TESLICA bike, (a) without an RMA from TESLICA (b) without all parts included in the original package, TESLICA retains the right to refuse delivery of such return.

## LIMITED PRODUCT WARRANTY

TESLICA warrants the original purchaser that your TESLICA product shall be free from defects in materials and workmanship under normal use for a period aforementioned. TESLICA does not warrant the operation of the product will be uninterrupted or error-free.

- Only the original owner of an e-bike purchased from TESLICA online or physical storefront is covered by this Limited Warranty. The Warranty Period begins upon your receipt of the e-bike and shall end immediately upon the earlier of the end of the Warranty Period or any sale or transfer of the e-bike to another person, and under no circumstances shall the Limited Warranty apply to any subsequent owner or other transfer of the e-bike.
- The Limited Warranty is expressly limited to the replacement of a defective lithium-ion battery (the "Battery"), frame, forks, stem, handlebar, headset, seat post, saddle, b r a k e s , lights, bottom bracket, crank set, pedals, rims, wheel hub, freewheel, cassette, derailleur, shifter, motor, throttle, controller, wiring harness, LCD display, kickstand, reflectors and hardware (each a "Covered Component").
- The Covered Components are warranted to be free of defects in materials and/or workmanship during the Warranty Period.

# Limited Warranty Does Not Cover:

- Normal wear and tear of any Covered Component.
- Consumables or normal wear and tear parts (including without limitation tires, tubes, brake pads, cables and housing, grips, chain and spokes).
- Any damage or defects to Covered Components resulting from failure to follow instructions in the e-bike owner's manual, acts of God, accident, misuse, neglect, abuse, commercial use, alterations, modification, improper assembly, installation of parts or accessories not originally intended or compatible with the e-bike as sold, operator error, water damage, extreme riding, stunt riding, or improper follow-up maintenance.
- For the avoidance of doubt, TESLICA will not be liable and/or responsible for any damage, failure or loss caused by any unauthorized service or use of unauthorized parts.
- The Battery is not warranted from damage resulting from power surges, use of an improper charger, improper maintenance or other such misuse, normal wear or water damage.
- Any products sold by TESLICA that is not an e-bike.

**DETERMINING WHETHER DAMAGE OR DEFECT TO AN EBIKE OR COVERED COMPONENT IS PROTECTED BY THIS LIMITED WARRANTY SHALL BE IN THE SOLE DISCRETION OF TESLICA.**





## Contact Us

Contact us if you experience issues relating to riding, maintenance and safety, or errors/faults with your TESLICA.

# TESLICA Inc

613 - 627 - 4285



[teslica.com](http://teslica.com)



[ebiker@teslica.com](mailto:ebiker@teslica.com)



244 Britannia Rd, Ottawa, ON K2B 5×2,  
Canada

**Please read this manual in full prior to operation your new bike**

**Visit [www.teslica.com](http://www.teslica.com) to download the latest user manuals**