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WARNING!

Read this entire manual before assembling or using your new electric bike. Do not modify, disassemble, or replace the original electrical components on your bike. Doing so will invalidate your warranty and could put you in danger. Riding any type of bike comes with some risks which can’t be predicted or avoided. Taking proper care of bike components can lower the risk of sudden failure of components but cannot prevent it. These sudden failures could cause serious harm, injury, or death to the rider. If you notice abnormalities in any component on the bike, take it to a licensed mechanic to be repaired or replaced immediately.

G-force Inc assumes no liability for harm, injury, or death of the rider. This manual is not intended to function as a detailed service manual.

G-force recommends having your local bike shop mechanic perform a detailed safety check of your bike before your first ride. Ensure your local mechanic is experienced and reputable. The G-Force ZF 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. See the IP code for more details. It does not mean that the bike and its mechanical and electrical components are waterproof. We do not recommend storing or using the bike in excessively wet conditions. The warranty for the G-force ZM does not cover water damage.
THANK YOU FOR YOUR PURCHASE!

We appreciate your purchase and we hope you thoroughly enjoy riding your E-Bike.

If you need any assistance or have any questions please feel free to contact us.

CONTACT INFORMATION
Email: support@g-forcebike.com
Website: www.g-forcebike.com
Phone: (909)330-6521
Congratulations on your purchase of a new G-Force E-Bike! Your bike and related accessories are inside your box, and the instructions below are meant to show you all the parts inside the box. Before removing the packing foam, please take out all the parts to confirm if there are any missing parts.

If any parts are missing or damaged, please contact G-Force customer service as soon as possible.

⚠️ Note: If this is your first time riding or the first time you assemble an ebike, we recommend you seek professional help, preferably from a local, certified bike mechanic.

What’s in the box:

- EBike ZF
- Front fender
- Pedals
- Charger
- Front wheel
- Headlight
- Tools
- Keys
- Nutted axle
FRAME NUMBER AND MOTOR NUMBER

Your bike has two unique serial numbers on the frame and on the motor. As shown in the picture

Please find the serial numbers stamped on your bike and keep records yourself. The motor number and frame number will be the proof of purchase for G-FORCE to honor the warranty.

Also, electric bike is stolen, you can provide the frame number for law enforcement.

EBIKE STRUCTURE INTRODUCTION
1. Handlebar
2. Headlight
3. Front fender
4. Brake disc
5. Battery
6. Crank Arms
7. Ebike Seat
8. Rear light
9. Rear fender
10. Motor

11. Front brake lever
12. On/Off button
13. Display
14. Downshifting button
15. Upshifting button
16. Rear brake lever
17. Horn button
18. Half twist throttle

**INSTALLATION OF INTEGRAL BODY**

1. Use a 4mm Allen key to remove all bolts.
2. Attach the handlebar to the stem connection, and thread in the bolts.
3. Gently take down the fork dropout protector.
4. Release the front brake by removing the plastic spacer.
5. Unscrew the axle nut from one side to remove one steel washer and one SMALLER black spacer.
6. To install a nuted hub front wheel, pass the axle through the hub from the opposite side of the brake rotor.
7. Install the front wheel.

8. Make sure the rotor slides through in between the brake pads inside the caliper.

9. Use a 15mm open-end wrench to fully secure axle nuts.

10. Remove the mounting hardware from the arch of the fork.

11. Install the front fender, and then fully tighten the nut by using a 5mm Allen key.

12. Remove the fender brace mounting hardware from the legs of the front fork.

13. Pass the bolts through the steel spacer, then fender arm eyelets. Use a 4mm Allen key to tighten the bolts.

14. Remove the headlight mounting hardware from the crown of the fork.

15. Attach the headlight to the front fork. Tighten the bolts with a 4mm Allen key.

16. Plug in the headlight connector as per the directed arrow on it.

17. Identify the left (L) and right (R) pedals the left and the right pedals are marked on both ends.

18. Install the right pedal by tightening the pedal in clockwise direction.
19. Install the left pedal by tightening the pedal in a counterclockwise direction.

Note: The recommended tire pressure range is 20-28PSI, with a peak pressure of 30PSI. You can choose the right tire pressure based on weight, terrain, and other factors.

# REMOVE THE BATTERY

1. Insert the key, turning the key to the "unlock" position.
2. Dial the knob at the back of the cross bar to the "UNLOCK" position.
3. Gently remove your battery from the frame.

# INSTALLED BATTERIES

1. Install the battery with the contact side downward.
2. Attach the battery jack to the pins (mounting tray terminal contacts).
3. Turning the key to the "unlock" position.
4. Push the battery upward to secure the battery into place.

**HOW TO ADJUST THE SUSPENSION FORK**

Twist the adjustment button clockwise to make your suspension fork stiffer, and turn it counterclockwise to make your suspension fork softer, so you can adjust the softness of the suspension fork according to your weight.

If you weigh more than 265 pounds, you should lock the suspension fork before riding.

⚠️ **Note:** do not sit on the bike when you are turning the knob.

**HOW TO CHARGE**

G-Force provides you with both whole bike charging and external battery charging for your convenience to choose.

**Whole bike charging mode:**
You can plug the charging plug into the body charging port and charge the EBike directly.

**External charging mode:**
Remove the battery and you can plug the charging plug into the battery charging port for external charging.
CHARGING SAFETY

- Do not use a charger other than G-Force to charge the E-Bike.
- When you receive the E-Bike, please charge the battery for the first time in time to ensure that the battery is fully charged when you ride it for the first time.
- Do not leave the battery unattended while charging.
- Avoid charging the battery at too high a temperature.
- Make sure there are no flammable objects around when charging.

Battery Safety:

⚠️ If you find the battery is damaged, leaking, discolored, etc., please do not charge the battery.
⚠️ When storing the battery, be sure to keep it away from heat sources and avoid direct sunlight.
⚠️ Do not immerse the battery in any liquid.
⚠️ Do not force the battery to remove, follow the instruction manual into the removal of the battery.
⚠️ Battery charging time may increase depending on the time of use.
⚠️ If the battery fails to charge, stop charging immediately.

Caution:

Be careful when charging, misuse will lead to property damage and personal injury.

When your batteries are no longer in use, dispose of your batteries according to your local state regulations. Disposal regulations for lithium batteries vary from state to state, so it is important to know your local government’s regulations. Lithium batteries should not be placed with regular trash.
INSTRUMENT INTRODUCTION

1. ON/OFF button
2. Up button
3. Down button
4. Battery level display
5. Speed
6. Speed unit
7. Speed display type
8. Headlight Indicator
9. Error code prompt
10. Gear display
11. Speed unit
12. Multi-function display
13. Cruise control

Caution:
The meter tries to avoid unnecessary knocks.
Please do not modify the instrument parameters that are not explained in this manual, otherwise it may not be able to ride properly.

ON/OFF LCD DISPLAY

Turn on the display
1. Press and hold the button for more than 3 seconds, the display start to work.
Turn off the Display and power off

1. Press and hold the button for more than 3 seconds, the display will be closed.

### OPERATING THE LCD DISPLAY

<table>
<thead>
<tr>
<th>Feature</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Increase Pedal Assist Level</td>
<td>Short-Press + button</td>
</tr>
<tr>
<td>Decrease Pedal Assist Level</td>
<td>Short-Press - button</td>
</tr>
<tr>
<td>Turn ON/OFF Headlight</td>
<td>Hold the + button for 3 seconds until lights turn on, repeat to turn off.</td>
</tr>
<tr>
<td>Toggle Speed, Odometer, TRIP, Trip Timer, VOL, Average Speed, Max Speed.</td>
<td>Press and let go of the button</td>
</tr>
<tr>
<td>Cruise Control and Walk mode</td>
<td>Stationary state of ebike, Hold the button for 3 seconds turn on 6KM/h Walk mode. Ebike running condition, Hold the button for 3 seconds turn on Cruise Control mode</td>
</tr>
</tbody>
</table>

Notes: The trip meter will reset when the bike is powered off. The maximum and average speed will be calculated for a given trip, and will reset when the bike is powered off. When the bike has not been used for 10 consecutive minutes, the display will automatically shutdown. The pedal assist and throttle features will no longer work when the display is turned off.
DISPLAY SETTING

To change display settings, hold the + and - button simultaneously to enter into the advanced settings menu. In this menu, clicking the + button will toggle between each numbered setting. To adjust the value of each setting, click the + and - buttons accordingly.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Function</th>
<th>Default</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>P01</td>
<td>Brightness</td>
<td>2</td>
<td>Backlight display brightness. The darkest level is 1, the brightest level is 3.</td>
</tr>
<tr>
<td>P02</td>
<td>Distance Units</td>
<td>1</td>
<td>0:KM 1:MILE</td>
</tr>
<tr>
<td>P04</td>
<td>Sleep</td>
<td>10</td>
<td>LCD Display sleep timer. With the default setting, the display will turn off after it has not been used for 10 minutes.</td>
</tr>
<tr>
<td>P08</td>
<td>Speed Limit</td>
<td>100</td>
<td>Speed limit. Range is 0-100. The input data here represents the maximum operating speed of the vehicle: for example, input 25 indicates that the maximum operating speed of the vehicle will not exceed 25km/h; The drive speed is maintained at this set value. The max value allowed is 45. Anything above this will not be recognized. Error: ± 3km/h If you want to set your e-bike to level 2, which is limited to under 20 MPH, you can set the value to 32.</td>
</tr>
<tr>
<td>P09</td>
<td>Throttle Zero Start</td>
<td>000</td>
<td>0: throttle active from standstill 1: throttle active only when already moving</td>
</tr>
<tr>
<td>P11</td>
<td>PAS Sensitivity</td>
<td>001</td>
<td>Sensitivity of PAS sensor. When set to higher numbers, it will take more crank rotations for the motor to turn on. On lower numbers, it will take little crank rotation to turn on the motor.</td>
</tr>
<tr>
<td>P16</td>
<td>Cruise Control</td>
<td>001</td>
<td>0: Cruise Control mode disabled 1: Cruise Control mode enabled</td>
</tr>
</tbody>
</table>
OPERATING SAFETY
Before riding the bike for the first time, ensure that you have read and understood this manual. Make sure you understand how to turn on and activate the pedal assist and throttle. When first riding the bike, take care to start slowly in a low level of pedal assist. Take your first ride in a safe area away from cars, other bikers, pedestrians, or other potentially dangerous obstacles. Only move up pedal assist levels when you feel comfortable and you have ample experience riding the bike. The higher pedal assist levels will accelerate you to higher speeds more quickly. Take care when riding the bike at any speed. Failure to adhere to warnings and guidelines in this manual can lead to serious harm, injury, or death. Damage sustained by the bike from failing to follow instructions, guidelines, and warnings in this manual is not covered under warranty. Do not lean on the bike when it is parked and the kickstand is in use.

Helmets and Local Laws
Always wear a helmet when riding your eBike. Ensure that the helmet fits your head and is securely tightened down. Before riding, read local laws and comply with all rules relating to cycling and eBiking in your area. If you attach a seat for children to the bike, they must also be wearing a properly fitted helmet at all times.

Pre-ride Safety Check and Inspection
Before each ride, make sure to inspect your eBike to ensure there are no loose fasteners or accessories. Make sure to specifically check that both the front and rear axles are secure. Also make sure both the handlebars and the handlebar stem are not loose. Check the tire pressure of both wheels before riding to ensure the tires are inflated to the recommended pressure printed on the side of the tire walls. Pull the brake levers to make sure your brakes are working properly and adjust if necessary. Ensure both your seatpost and handlebar stem are inserted past their minimum insertions points as indicated by the markings on them. Make

Riding in Wet Conditions
This electric bicycle can withstand light rain and small splashes, but is not designed to be subjected to inclement weather, extremely heavy showers, or submersion in water.
Note: Use caution when riding in wet conditions as it will take longer to use the brakes to slow down, and also when turning as the tires may slip. The electrical components on the bike are not waterproof. The entire bike has an IP rating of 65. Water damage is not covered under warranty.

**Riding at Night**

Riding at night comes with more risks than riding during the day due to decreased visibility so riders are encouraged to exercise increased caution. Before riding at night, make sure that reflectors are installed on your eBike. For increased visibility, also ensure the front headlight and rear tail light are turned on and adjusted such that other people on the road can see them clearly. Riders should wear bright colored clothing at

**Max Weight**

The bike can safely carry a total weight of 400 lbs. Note range and top speed will be affected by total weight being carried by the bike. If you are over 265 lbs you should lock out the suspension fork before riding.

### PRE-RIDE SAFETY CHECK

Ensure all components are properly secured before riding otherwise serious harm or death could occur. This includes but is not limited to: pedals, handlebars, handlebar clamp, cranks, seat, and seatpost clamp.

- Make sure you can’t twist the seat or stem out of alignment by hand.

- Check that your suspension fork is properly adjusted for the terrain and your weight. The suspension fork will affect the handling of the bike, primarily when going over bumps and stopping. In some situations, it may be advantageous to lock out the suspension so it is fully rigid.

- The suspension fork can be locked out so it is rigid, and the tension is adjustable. To adjust the suspension fork use the blue knob. To fully lock the suspension, turn the knob clockwise towards the “lock” direction indicated until it cannot be turned further.
• To increase the stiffness, turn the knob clockwise towards the “lock” direction indicated. To make the suspension softer, turn the knob counterclockwise towards the “open” direction indicated.

• If you are over 265 lbs you should lock out the suspension fork before riding.

• Ensure all cables and connectors at the front of the bike are securely connected or certain components may not work including the front light, the motor inhibitor switches, LCD display, and throttle. The motor inhibitor switches shut the motor off as soon as the rider hits the brakes. If these switches are not operational it will take longer to slow down which in some riding situations could cause injury or death to the rider. If you have installed any accessories make sure they do not interfere with all cables and connectors when turning the handlebars.

**ERROR CODES**

<table>
<thead>
<tr>
<th>Error Code</th>
<th>Meaning</th>
<th>Error Code</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>03</td>
<td>Sensor Fault</td>
<td>06</td>
<td>Battery Undervoltage</td>
</tr>
<tr>
<td>07</td>
<td>Motor Fault</td>
<td>08</td>
<td>Throttle Fault</td>
</tr>
<tr>
<td>09</td>
<td>Controller Fault</td>
<td>10</td>
<td>Communication Reception Failure</td>
</tr>
<tr>
<td>11</td>
<td>Communication Send Failure</td>
<td>12</td>
<td>BMS Communication Fault</td>
</tr>
<tr>
<td>13</td>
<td>Headlight Fault</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
WARRANTY

All Bikes should be operated in accordance with the G-force owner’s manual provided with the bike. G-force warrants to the original registered purchaser that bikes shall be free from all defects in material and workmanship for a period of 12 months from the date of shipment, when used in accordance with the owner’s manual and for the purpose intended. All other obligations and conditions or liabilities, including obligations for consequential damages, are hereby excluded. The warranty is nontransferrable and only applies to the original owner. This warranty gives you specific rights and purchasers may also have other rights, which may vary by location. Damage caused by failing to adhere to instructions and warnings issued by G-force is not covered under warranty. Warranty parts will only be shipped within the continental United States. The warranty period of parts is as follows.

<table>
<thead>
<tr>
<th>Accessories</th>
<th>Three Packages</th>
<th>Three Guarantees Failure Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Motor</td>
<td>12 months</td>
<td>Free repair of failure within two years</td>
</tr>
<tr>
<td>Controller</td>
<td>12 months</td>
<td>Performance failure</td>
</tr>
<tr>
<td>lithium battery</td>
<td>12 months</td>
<td>Can’t charge and discharge</td>
</tr>
<tr>
<td>charger</td>
<td>12 months</td>
<td>Performance failure</td>
</tr>
<tr>
<td>meter</td>
<td>12 months</td>
<td>Malfunction</td>
</tr>
<tr>
<td>Turn handle</td>
<td>3 months</td>
<td>Malfunction</td>
</tr>
<tr>
<td>Brake lever</td>
<td>3 months</td>
<td>No power-off function</td>
</tr>
<tr>
<td>Booster</td>
<td>3 months</td>
<td>No induction capability</td>
</tr>
<tr>
<td>Frame</td>
<td>12 months</td>
<td></td>
</tr>
<tr>
<td>Front fork</td>
<td>12 months</td>
<td></td>
</tr>
<tr>
<td>Riser</td>
<td>12 months</td>
<td></td>
</tr>
<tr>
<td>handlebar</td>
<td>6 months</td>
<td>There are natural welding, desoldering, and fracture phenomena</td>
</tr>
<tr>
<td>crank</td>
<td>6 months</td>
<td></td>
</tr>
</tbody>
</table>

Warranty time is calculated from the sales date.

Accessories sold on www.g-forcebike.com are not covered under warranty (except in cases of shipping damages). Stolen bikes are not covered under warranty. Necessary precautions must be taken to ensure the bike and battery are not exposed to severe weather conditions. Exposure to very wet, hot, or cold conditions may void the warranty.
We will replace any parts deemed to have been damaged during shipping. Shipping damage must be reported to G-force within 14 days of shipment arrival. This applies to all products including bikes and accessories. You will NOT be refunded as compensation for your time or efforts replacing damaged parts. Replacement parts will not be sent until photographic evidence has been provided to G-force. G-force may request additional documentation (such as video) to assist with accurately diagnosing the problem and processing the warranty claim. Most warranty parts are fulfilled 1-10 business days after the request is put into our system by a customer service representative. Warranty parts are sent using USPS First Class, FedEx Express, or FedEx Ground depending on the size of the part. Warranty parts will not be expedited. Items including the chain, tires, wheels, tubes, battery handle, brake pads, cables and housing, grips, and spokes are considered wear items.

These items wear down with normal use and are not covered under warranty. You are responsible for replacing and maintaining these wear items. Any unauthorized alterations or repairs are not covered and may void this warranty. For warranty services, please contact G-force online support by email at support@g-forcebike.com. Bikes or parts returned without proper documentation may result in delayed service or denied warranty coverage. Warranty return shipping costs along with duties and taxes are the responsibility of the claimant.

**ELECTRIC BIKE MAINTENANCE**

**Regular cleaning**

Cleaning the bike often will help to keep dirt, dust, and debris from getting into the engine and messing with the motor. It also helps to keep all the mechanical parts moving properly without grinding against each other or blocking the chain. E-bikes should be washed once or twice per week.

When you clean your e-bike, do not use a pressurized hose or stream of water. This might compromise the integrity of the meals around electrical equipment and wear them down, eventually leading to exposed and wet electrical systems that will then malfunction. Instead, use a low-pressure water stream or a wet rag and dry the bike off once you’re doing washing it.
Lubrication
In order to keep all the mechanics in working order, you can apply lubrication on the major moving parts such as the chain. You should use a special cleaning solution to clean off the chain before applying a bike lubricant to it. This should ideally be done at least once a week if you use the bike often.

Check the bolts
Do a quick once-over and check for any loose screws, bolts, nuts, or anything else on the bike. If there is too much play in the bolts, tighten them up a little bit and see if you can identify the cause of the looseness. Don’t tighten the bolts too far.

Tire pressure
You can check to see what the current pressure is in the tires by using a simple pressure gauge. If it’s too low, or if the tires can visibly sink when you push your finger into them, you should get out your bike pump and inflate them properly to the pressure indicated on the tires.

Brake pads
Take a good look at the brake pads on your bike every few weeks to see how they are holding up. It’s essential that you have effective brakes or else you could end up in a serious accident. Brake pads can easily and cheaply be replaced whenever necessary.

Waterproofing
The battery and motor of an ebike are well sealed to prevent any water damage. That doesn’t mean it’s absolutely impossible for water to get in, but with a certain level of common sense and care, you won’t need to worry. Things to avoid with an electric bike include using a jet wash and fully submerging the bike. No lake jumps then, sorry! The motor itself is in a factory-sealed unit and you should never attempt to take it apart for maintenance or to try and fix a problem.
Battery care

Charge the battery at room temperature in a dry location. To improve the lifespan of your battery, avoid leaving the battery fully charged or fully discharged for long periods of time. When the bike is out of use for an extended period, you can disconnect the battery. It will gradually lose charge, so still top it up every now and again. As we’ve already said, avoid storing the bike for long periods of time with no charge – maintaining 30 to 60 per cent charge is ideal for long-term storage, according to ebike systems manufacturer Bosch. Extreme heat and cold are the enemies of electric bike batteries. Store your ebike battery in a cool, dry place out of direct sunlight. During winter, and particularly if the temperature is below 0°C, charge and store the battery at room temperature, and re-insert the battery into the bike immediately before riding.

DISCLAIMER

Riding any kind of bicycle comes with inherent risks and dangers that cannot be predicted or avoided. These dangers could result in a serious accident, injury, or death of the rider. It is the sole responsibility of the rider to become properly educated and prepared to ride safely. Once in possession of the bike, G-force strongly encourages and recommends that all customers have a certified and reputable bicycle mechanic complete a full inspection of each component on the bicycle to ensure it is safe for operation. G-force makes no claims or guarantees that the brakes, battery, frame, motor, motor controller, LCD display, electrical cables, electrical cable housings, fasteners, grips, fork, stem, shifters, headset, seatpost, seatpost clamp, handlebar stem clamp, saddle, wheel hubs, handlebars, spokes, rims, tires, tubes, derailleur, freewheel, cassette, throttle, kickstand, lights, reflectors, hardware, bottom bracket, or any other part or accessory, will be properly secured and adjusted upon arrival. Before every ride fully inspect your bicycle to ensure everything is secured and adjusted properly. Under no circumstances is G-force responsible for any damage resulting from damaged, defective, or improperly secured parts. This includes, but is not limited to, damage to personal property, personal injury, or death.
DISCLAIMER

Riding any kind of bicycle comes with inherent risks and dangers that cannot be predicted or avoided. These dangers could result in a serious accident, injury, or death of the rider. It is the sole responsibility of the rider to become properly educated and prepared to ride safely. Once in possession of the bike, G-force strongly encourages and recommends that all customers have a certified and reputable bicycle mechanic complete a full inspection of each component on the bicycle to ensure it is safe for operation. G-force makes no claims or guarantees that the brakes, battery, frame, motor, motor controller, LCD display, electrical cables, electrical cable housings, fasteners, grips, fork, stem, shifters, headset, seatpost, seatpost clamp, handlebar stem clamp, saddle, wheel hubs, handlebars, spokes, rims, tires, tubes, derailleur, freewheel, cassette, throttle, kickstand, lights, reflectors, hardware, bottom bracket, or any other part or accessory, will be properly secured and adjusted upon arrival. Before every ride fully inspect your bicycle to ensure everything is secured and adjusted properly. Under no circumstances is G-force responsible for any damage resulting from damaged, defective, or improperly secured parts. This includes, but is not limited to, damage to personal property, personal injury, or death.