



Thank you for purchasing the M-Class from Ariel Rider Ebikes™.

We take pride in bringing you a quality product that will offer years of enjoyment. Please read and understand this manual fully before assembling and riding your bike.

If you have questions after reading this manual, please reference the Ariel Rider Ebikes Help Center, contact us by email, and/or give us a call on the phone.

We are here to help!

Ariel Rider Ebikes Help Center:

info@arielrider.com

Using This Manual

This manual contains details of the product, its equipment, and information on operation, maintenance, and other helpful tips for owners. Read it carefully and familiarize yourself with the M-Class before using it to ensure safe use and prevent accidents.

Be sure to retain this manual as your convenient M-Class information source.

This manual contains many warnings and cautions concerning the safe operation and consequences if proper setup, operation, and maintenance are not performed. All information in this manual should be carefully reviewed and if you have any questions you should contact Ariel Rider E-bikes immediately. The notes, warnings, and cautions contained within the manual and marked by the triangular Caution Symbol at the right of this page should also be given special care. Users should also pay special attention to information marked in this manual beginning with **NOTICE**.



Because it is impossible to anticipate every situation or condition which can occur while riding, this manual makes no representations about the safe use of bikes under all conditions. There are risks associated with the use of any bike which cannot be predicted or avoided, and which are the sole responsibility of the rider. You should keep this manual, along with any other documents that were included with your bike, for future reference, however all content in this manual is subject to change or withdrawal without notice. Ariel Rider E-bikes makes every effort to ensure accuracy of its documentation and assumes no responsibility of liability if any errors or inaccuracies appear within. Assembly and first adjustment of your bike from Ariel Rider E-bikes requires special tools and skills and it is recommended that this should be done by a certified, reputable bike mechanic if possible.

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General Info

Assembly and Fit

Correct assembly and fit are essential elements of ensuring your bicycling safety, performance, and comfort. Even if you have the experience, skill, and tools to complete these essential steps before your first ride, Ariel Rider E-bikes recommends having a certified, reputable bike mechanic check your work.

NOTICE: If you do not have the experience, skill, and tools to complete assembly and fit, Ariel Rider E-bikes highly recommends having a certified, reputable bike mechanic complete these procedures as well as any future adjustments or tuning.

NOTICE: A critical aspect of assembling your bike from Ariel Rider E-bikes is securing the front wheel and checking the tightness of the rear wheel axle nuts. All bikes by Ariel Rider E-bikes use a quick release front wheel mounting mechanism and the rear wheel is bolted on. Both wheels need to be properly secured before operating your bike.

Mandatory Equipment and Use Locations

Before all rides, ensure you have all required and recommended safety equipment and are following all laws pertaining to using an electric bike in your region. For example, these laws may specify the need for mandatory equipment, use of hand signals, and where you can ride.

Changing Components or Attaching Accessories

The use of non-original components or spare parts can jeopardize the safety of your M-Class, void your warranty and, in some cases, cause your M-Class to not conform with laws pertaining to your bike.



The replacement of original components or installation of third-party accessories or accessories from Ariel Rider E-bikes not explicitly recommended for your bike model, is at your own risk. Using aftermarket accessories or components that have not been tested by Ariel Rider E-bikes for safety and compatibility may void your warranty, create an unsafe riding condition, damage your bike by Ariel Rider E-bikes, or result in serious injury and/or death.

Safety Check Before Each Ride

Always check the condition of your bike before you ride in addition to having regular maintenance performed. If you are unsure of how to conduct a complete check of the condition of your bike before every ride, you should consult a certified, reputable bike mechanic for assistance. See the Pre-Ride Safety Checklist for more information.

Electrical System

The electrical system on your M-Class offers various levels of power assistance and lighting for different operating conditions and user preferences. It is critical that you familiarize yourself with all aspects of your M-Class's electrical system and check to see that it is working correctly before every ride. The front and rear brake levers contain safety power cutoff switches, which disable the hub motor's assistance when applied, and both levers should be checked for correct operation. The throttle should provide smooth acceleration when gradually applied. If the throttle, brake lever cutoff switches, pedal assistance, or lighting is not functioning normally, intermittent, or not working, please discontinue using your M-Class immediately and contact the Ariel Rider E-bikes Technical Support team for assistance.

Brakes

Ensure brakes are working correctly, all braking system components are free from damage, and properly secured. When you fully squeeze the brake levers, ensure neither the front or rear brake levers touch the handlebar. Take your bike to a certified, reputable bike mechanic to have the brakes repaired if you find a problem.

Tires and Wheels

Your wheels should always spin straight and must be repaired or replaced if they wobble side to side or up and down when spinning. If your wheels become untrue or spokes loosen, do not attempt to true or tighten unless you have adequate knowledge, tools and experience. It is recommended that a certified, reputable bike mechanic performs all wheel tuning and truing operations on your bike from Ariel Rider E-bikes. Ensure your tires and inner tubes are in good working condition without any visual damage and have the correct amount of air pressure. Always replace tires and inner tubes with punctures, cuts or damage before you ride. Tires without the correct amount of air pressure can reduce performance, increase tire and component wear, and make riding your bike unsafe.

Accessories, Straps, and Hardware

Ensure all hardware is secured and all approved accessories are properly attached per the specific component manufacturer's instructions. It is good practice to look over all hardware, straps, and accessories before each ride and if you do discover something is wrong or find something you are not sure about, please have it checked by a certified, reputable bike mechanic.

Quick Release Levers

Quick release levers are located throughout the M-Class for securing the seat post. These provide convenience to the user since they allow the front wheel to be removed and the seat post to be adjusted without tools. Since quick release levers can be loosened during transportation, or accidentally between or during rides, it is important that you regularly check to ensure these components are properly secured.

Suspension, Handlebar, Grips, and Seat Adjustments

The suspension fork on your M-Class will affect the handling of the bike so you **MUST** understand how it works before use. The suspension fork should be properly adjusted for your weight and terrain. Check to ensure the handlebar, handlebar stem, and seat post are properly fastened, aligned, and fitted to the user. Ensure all hardware securing the handlebar and seat are properly tightened including all quick release levers. Loose,

worn, or damaged handlebar grips should be replaced before you ride.

Battery Charged, Secured, and Unplugged

Ensure the battery is fully charged and operating properly. The battery gauge on the LCD Display and battery mounted charge status indicator should read similarly. The battery **MUST** be locked onto the frame battery mount properly before use. Ensure the battery charger is unplugged from the battery, outlet, and stored in a safe location before you ride.



Assembly Instructions

NOTICE: The following assembly steps are only a general guide to assist in the assembly of your bike from Ariel Rider E-bikes and is not a complete or comprehensive manual of all aspects of assembly, maintenance, and repair. We recommend you consult a certified, reputable bike mechanic to assist in the assembly, repair, and maintenance of your bike.

Step 1: Unpack bike from the carton and carefully set out all contents of the box. Remove packaging material protecting the bike frame and components. Please recycle packaging materials especially cardboard and foam (all #6 EPS foam). Ensure you have received the correct frame size before assembling the bike and that all pieces are included in the package including:

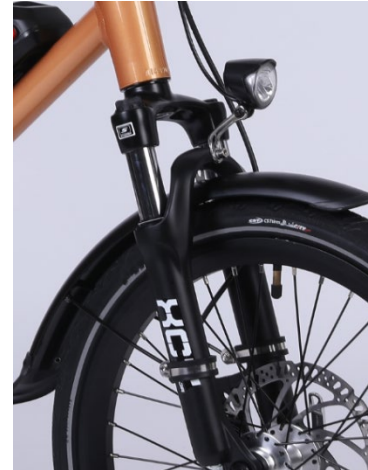
- M-Class bike,
- Front wheel,
- Front Fender,
- Warranty Registration Card,
- Charger,
- Headlight,
- Assembly toolkit,

- Pedals,
- Keys,
- Front fender holders.

If there are any missing parts, please contact Ariel Rider E-bikes.

Step 2: Install handlebar onto stem. Unscrew the cap out of the fork head and discard it. Leave 2 spacers on the fork head. Open the clamp of your stem by pulling pin on the left side of your stem and lifting the clamp. Place the stem onto the fork head and tighten it by screwing it onto the fork head using allen keys. Adjust the stem angle and lock the clamp back onto the stem.

Step 3: Install the front fender. The clamps that are needed to hold fender arms are in the tool box provided with the bike. Please note that if you have purchased the front basket, the light can be attached onto the front basket as well.



Step 4: Install the front wheel components. Ensure front wheel is properly secured before moving on to the next step. When properly installed, the front wheel should be fully seated in the dropouts of the front fork, and the washers and nuts should be on the outside of the fork, please make sure everything is fully and properly secured.



Step 5: Install the pedals. Locate the pedal marked with an “L” at the pedal axle end and notches on the outside of the pedal axle (1, at right). The pedal marked “L” with notches goes on the crank on the left side of the bike (which is the same as a rider’s left side when riding). **The left pedal is reverse threaded and tightens counterclockwise.** Carefully thread the pedals by hand slowly. Do not cross thread or damage the threads. **Tighten securely using a pedal wrench to avoid damage caused by wider wrenches,** as shown in assembly video.



The right pedal is threaded so that it is tightened by turning clockwise, has an “R” stamped into the pedal axle end, and a smooth exterior on the outside of the pedal axle. Carefully thread the right pedal onto the crank on the right side of the bike (the side with the drivetrain gears) slowly and by hand. Do not cross thread or damage the threads. **Tighten securely using a pedal wrench to avoid damage caused by wider wrenches.**

Step 6: Secure the stem into place. After you align the front wheel and the handlebars, tighten the 2 screws on the side of the stem in order to secure the stem into place.



Step 7: Inflate tires to desired PSI. Recommended tire pressure is indicated on the tire sidewall. Do not overinflate or underinflate tires.



Step 6: Set desired seat height. Adjust the seat post up or down to a comfortable height, while ensuring the seat post is inserted into the frame past the minimum insertion point. Ensure the seat post clamp opening is centered over the gap in the seat tube and secure all hardware and the quick release lever to lock the seat post in place so it cannot move. Do not overtighten.

Step 7: Always check that the battery is locked to the frame of the M-Class before riding. The Start-Up Procedure section of this manual has more information on the key positions of the battery; on and locked to the frame, off and locked to the frame, and off and unlocked (ready for removal from the frame).



Step 8: Review the remainder of the manual. Once the bike has been assembled per the above instructions and the assembly video available from website read, understand, and follow the procedures outlined in the remainder of the manual before operating the bike.

NOTICE: If you have any questions regarding the assembly of your bike, contact Ariel Rider E-bikes. If you are not able to ensure all the assembly steps in the assembly video are performed properly, or you are unable to view the assembly video, please consult a certified, reputable local bike mechanic for assistance in addition to contacting Ariel Rider E-bikes for help.

NOTICE: Ensure all hardware is tightened properly following Recommended Torque Values and all safety checks in this manual are performed before the first use of the bike.



Do not extend any components including the stem or seat post beyond the minimum insertion markings on the seat post or maximum angle markings on the stem which are etched into the components. Ensure that all hardware is properly tightened (to the recommended torque values included in this manual) and components are secured before moving on to next step otherwise damage to the bike, property, serious injury, or death could occur.

Hardware Location	Hardware	Torque Required (Nm)
Handlebar Area	Handlebar Stem Clamp Bolts	10
Handlebar Area	Stem Faceplate Bolts	6
Handlebar Area	Brake Lever Clamp Bolt	6
Handlebar Area	Shifter Clamp Screw	6
Handlebar Area	Stem Angle Adjust	18
Brakes	Caliper Adapter to Frame	6-8
Brakes	Caliper to Adapter	6-8
Brakes	Brake Cable to Caliper Clamp	6-8
Brakes	Disc Brake Rotor to Hub	7
Seat Post Area	Seat Adjustment Bolt	20
Seat Post Area	Seat Post Clamp	7
Rear Dropout Area	Rear Axle Nuts	40
Rear Dropout Area	Rear Torque Arm Bolt	5
Rear Dropout Area	Derailleur Hanger Mounting Bolt	6
Rear Dropout Area	Derailleur Mounting Bolt	10
Rear Dropout Area	Derailleur Cable Pinch Bolt	6-8
Rear Dropout Area	Kickstand Mounting Bolts	8
Bottom Bracket and Crank Area	Bottom Bracket and Lockring	60
Bottom Bracket and Crank Area	Crank Arm Bolt into Bottom Bracket Spindle	35

Bottom Bracket and Crank Area	Pedal into Crank Arm	35
Bottom Bracket and Crank Area	Chainring Bolts	10
Bottom Bracket and Crank Area	Controller Mounting Bolts	6
Fenders	All Fender Mounting Bolts and Hardware	6

Adjusting the Seat Height

For most users, the seat height should be set by placing the ball of their foot on the pedal when the crank is at its lowest point. In this orientation their leg should almost be fully extended, with a slight bend at the knee.

- 1) Open the quick release lever by swinging the lever open and outwards to about 180 degrees.
- 2) Move the seat up and down by sliding the seat post in or out of the seat tube. Set the desired seat height.
- 3) After tightening the adjustment nut (opposite the quick release lever) on the seat post quick release properly, close the quick release lever by swinging the lever back about 90 degrees until it looks like the image at right and the seat cannot



move up, down, to the left, or right.



Before using the bike, always check to ensure all latches, levers, and quick releases are properly secured and undamaged. Check that they are correctly secured before every ride and after every time the bike is left unsupervised, even for a short time. Otherwise, the handlebar stem and/or seat post may come loose and can result in loss of control, damage to the bike, property, serious injury, and/or death.

Adjusting the Seat Position and Angle

To change the angle and horizontal position of the seat:

- 1) Use a 6 mm Allen wrench to loosen the seat adjustment bolt (pictured at right) underneath the seat on the clamp positioned immediately underneath the seat, above the rear wheel.
- 2) You can now move the seat backwards or forwards in the guide and adjust the angle of the seat. A seat position horizontal to flat ground is desirable for most riders. There are white limit markings on the seat rail, which show the minimum and maximum horizontal movement allowed for this component, do not exceed these limits.
- 3) While holding the seat in the desired position, use an Allen wrench to tighten the seat adjustment bolt securely to the recommended torque value.



NOTICE: Prior to first use, be sure to tighten the seat clamp via the seat adjustment bolt properly. A loose seat clamp or seat post adjustment bolt can cause damage to the bike, property, loss of control, a fall, serious injury or death. Periodically check to make sure that the seat clamp is properly tightened.

NOTICE: Ensure seat post and seat are properly adjusted before riding. DO NOT raise the seat post beyond the minimum insertion marking etched into the seat post tube (as shown at right). If the seat post projects from the frame beyond these markings (shown far right), the seat post or frame may break, which could cause a rider to lose control and fall. Ensure the minimum insertion markings on the seat post are inside the seat tube of the frame.

the Suspension Fork

The M-Class comes equipped with an front suspension fork, These suspension forks can move up and down up to certain degree to cushion bumps in the riding surface, which can make riding on a rough road or trail smoother and more comfortable.



Rider Comfort

To obtain maximum comfort, riders should not overextend their arms' reach when riding. To obtain the most comfortable riding position and offer the best possible pedaling efficiency, the seat height should be set correctly in relation to the rider's leg length as briefly described above. The correct seat height should not allow leg strain from over extension and the hips should not rock from side to side when pedaling. While sitting on the bike with one pedal at its lowest point, place the ball of the foot on that pedal. The correct seat height will allow the knee to be slightly bent in this position. A bike fitting professional, such as a certified, reputable bike mechanic who specializes in bike fit, should be consulted to ensure you have a good fit.

Battery Charging

Charging Procedure

Follow these steps for charging your bike from Ariel Rider E-bikes:

1. **Turn the battery off by pressing the red power button on the right side of your battery.**
2. **Remove the rubber cover on the charging port** (same side of battery) on the opposite side of the battery from the key switch.
3. With the battery on or off the bike, place the charger in a flat, secure place, and connect the DC output plug from the charger (round barrel connector) to the charging port on the side of the battery.
4. **Plug the charger into the outlet, then the charging port.** Connect the charger input plug (110/220-volt plug) to the power outlet. Charging should initiate and will be indicated by the LED charge status light on the charger turning red.
5. **Unplug the charger from the outlet, then the charging port.** Once fully charged, indicated by the charging indicator light turning green, unplug the charger from the wall outlet first and proceed to remove the charger output plug from the battery



charging port.



Always charge your battery in temperatures between 50 °F – 77 °F (10 °C - 25 °C) and ensure the battery and charger are not damaged before initiating charge. If you notice anything unusual while charging, please discontinue charging and use of the bike and contact Ariel Rider E-bikes for help.



Battery Charging Information

- Check the charger cables, charger, and battery for damage before beginning each charge.
- Always charge in dry, indoor locations away from direct sunlight, dirt, or debris.
- Charge in a clear area away from potential to trip on the charging cords or for damage to occur to the bike, battery, or charging equipment while parked and/or charging.
- The battery can be recharged on or off the bike.
- To remove the battery, turn the key to the off and unlocked position (see the Start-Up Procedure section of this manual for more details) and then carefully pull the battery forward and up until the battery detaches from the receptacle.
- The battery should be recharged after each use, so it is ready to go the full range per charge next ride. There is no memory effect, so charging the battery after short rides will not cause damage.
- The charge indicator lights on the charger will stay red while the battery charges and one will turn green when charge is complete. Ensure the lights face upwards when using the charger.
- The charger will automatically stop charging when the battery is full.
- Charging the battery fully normally takes 3-7 hours. In rare cases, it may take

longer to allow the battery management system to balance the battery, particularly when the bike is new or after long periods of storage.

- Do not charge the battery for more than 12 hours at a time or leave a charging battery unattended.



Do not cover up the charger when plugged in or charging. It air cools and needs to be on a hard, flat surface in an open space. Use the charger with the indicator light facing upwards. Do not use with the charger inverted, which can inhibit cooling and reduce charger lifespan.



If the battery is physically damaged, non-functional, performing abnormally, or was dropped or involved in a crash, with or without obvious signs of damage, please discontinue use and charging and contact Ariel Rider E-bikes immediately.



Do not open the battery housing, which will void the warranty and can result in damage to the battery, property, serious injury, and/or death.

When the Battery Is Removed

- Ensure the battery is turned off whenever it is being removed or off the bike.
- Do not touch the “+” and “-” terminal contacts on the bottom of the battery when the battery is removed from the bike.
- Be careful not to drop or damage the battery when loose from the bike.
- Be careful to avoid damaging the exposed connector terminals and keep them clear of debris.



Use caution to avoid damage to battery connector terminals, which are exposed when the battery is unlocked and removed from the frame of the bike. In the case of damage to the terminals or battery mounts, please discontinue use and contact Ariel Rider E-bikes Technical Support immediately.

When Installing the Battery onto the Bike

- Ensure the battery is turned off before sliding the battery into the frame mount receptacle.
- Do not force the battery onto the receptacle; slowly align and push the battery down into the receptacle.
- Ensure the battery has been properly secured to the bike before each use by carefully pulling upwards on the battery with both hands to test the security of the attachment of the battery to the mount.

Charging Time

When the input and output plugs of the charger are connected properly, and the battery is not fully charged, the red charging indicator light should illuminate, indicating the battery is charging. The time the charger takes to fully charge the battery is dependent on various factors including distance traveled, riding characteristics, terrain, payload, and battery age. The following table provides an estimate of charge time based on most common distances traveled in regular operation:

Distance Traveled	Estimated Time to Fully Recharge
5 mi (8 km)	1 hour
10 mi (16 km)	1.5 hours
15 mi (24 km)	2.5 hours
20 mi (32 km)	3.5 hours
25 mi (40 km)	4.5 hours
20 mi (48 km)	5.5 hours
45 mi (72 km)	7 hours

Notice: The battery may take longer to charge when fully depleted, when very new, and after 3-5 years of regular use. If your battery does not seem to be charging normally, taking longer to charge than expected, or you are experiencing substantial reduction in range, please discontinue use and contact Ariel Rider E-bikes immediately.

Charger Safety Information

- The charger should only be used indoors in a dry, ventilated area, on a flat, stable, hard surface.
- Avoid charger contact with liquids, dirt, debris, or metal objects. Do not cover the charger while in use.
- Store and use the charger in a safe place away from children and where it cannot suffer damage from falls or impact.
- Fully charge the battery before each use to ensure it is ready to go the full range per charge, to extend the life of the battery, and help reduce the chance of over-discharging the battery pack.
- Charge the battery with the charger originally supplied with the bike from Ariel Rider E-bikes, or a charger purchased directly from Ariel Rider E-bikes, designed for use with your specific bike serial number, as approved by Ariel Rider E-bikes. Never charge the battery with a different charger, which could cause damage to the battery, bike, property, injury, and/or death.

- The charger works on 110/220 V 50/60 Hz standard home AC power outlets and the charger automatically detects and accounts for incoming voltage. Do not open the charger or modify voltage input.
- Do not yank or pull on the cables of the charger. When unplugging, carefully remove both the AC and DC cables by pulling on the plastic plugs directly, not by pulling on the cables.
- The charger will get hot when operating as designed. If the charger gets too hot to touch, you notice a strange smell, or any other indicator of overheating, discontinue charger use immediately and contact Ariel Rider E-bikes Technical Support.



Please take special care in charging your bike from Ariel Rider E-bikes in accordance with the procedures and safety information detailed in this manual. Failure to follow proper charging procedures can result in damage to your bike from Ariel Rider E-bikes, the battery, the charger, personal property, and/or serious injury or death.

Long-Term Battery Storage

If storing your bike from Ariel Rider E-bikes for longer than two weeks at a time, follow the instructions below to maintain the health and longevity of your battery.

- Charge (or discharge) the battery to approximately 75% charged.
- Power off the battery by inserting the key into the key port of the battery on the left side of the battery and turning counter clockwise to the small icon of the circle containing an “X” on the lock cylinder faceplate (to keep the battery locked onto the frame in the off position). To power off the battery and remove it from the bike to store off the bike, push the key into the key port and push and rotate counter clockwise until the key is aligned with the small lock icon; use both hands to carefully lift the battery off the bike and bring the battery to the storage location.
- Store the battery in a dry, climate controlled, indoor location between 50 °F – 77 °F (10 °C - 25°C).
- Check the battery every month, and if necessary, use the charger from Ariel Rider E-bikes to charge the battery to 75% charged.



Please follow the above instructions for storing your bike and battery from Ariel Rider E-bikes. Failure to follow proper battery storage procedures

can result in a non-functional battery and replacement will not be covered under warranty.

Operation

NOTICE: Do not perform any of the steps in the Operation section of this manual until you have read this entire manual, since there are important details in the following sections related to safety.



Users must become accustomed to the bike's power control system before operating. The throttle mechanism allows full power to be activated from a stop and inexperienced users should take extra care when first applying the throttle. The pedal assistance feature is also a powerful option and users should fully research and understand how to operate it before first use. Not taking care to familiarize yourself and practice the operation of the power system on your bike from Ariel Rider E-bikes can lead to death or serious injury, please heed this warning.



Users must follow the instructions and warnings contained in this manual for safety. Do not attempt to operate your bike from Ariel Rider E-bikes until you have adequate knowledge of its control and operation. Damage caused by failing to follow instructions is not covered under warranty and could result in personal injury to you and others, and damage to property and/or your bike from Ariel Rider E-bikes. Contact Ariel Rider E-bikes if you have any questions about assembly or operation.

Start-Up Procedure

After the bike has been properly assembled following the assembly video, all components are secured correctly, and you have read this entire manual, you may turn the bike on and select a power level following the steps outlined below:

1. **Familiarize yourself with the key port and key positions**
2. **Turn the bike on.** Once the battery lock has been verified, turn the battery on from the red switch on the right side of the battery and then press and hold the power button on the screen (below the display on the right side).
3. **Select your desired level of pedal assistance (PAS)** between level 0 through 5 using the up and down arrows on the display remote. Level 1 corresponds to the lowest level of pedal assistance, and level 5 corresponds to the highest level of pedal assistance. Level 0 indicates pedal assistance is inactive. Start in PAS level 0 or 1 and adjust from there.
4. **To turn on the headlight,** once the LCD Display is on, hold down the top (+ button) button located on the LCD Display for approximately 2-3 seconds until the light illuminates.

5. **Begin riding carefully.** With the proper safety gear, rider knowledge, and understanding you may now proceed to operate your bike from Ariel Rider E-bikes. You can begin by pedaling the bike in the appropriate drivetrain gear with pedal assist level 0 or 1. You may also use the throttle to accelerate and maintain your desired speed.
6. **The throttle** is used by setting pedal assist mode to 0. Do not use the throttle unless you are on the bike.

NOTICE: Even if you are an experienced bike user, please take the time to read and implement the guidelines described in the owner's manual accompanying your M-Class, and the manuals included with each subcomponent.



Users must become accustomed to the bike's power control system before operating. The throttle mechanism allows full power to be activated from a stop and inexperienced users should take extra care when first applying the throttle. The pedal assistance feature is also a powerful option and users should fully research and understand how to operate it before first use. Not taking care to familiarize yourself and practice the operation of the power system on your bike from Ariel Rider E-bikes can lead to death or serious injury, please heed this warning.

Handlebar Features

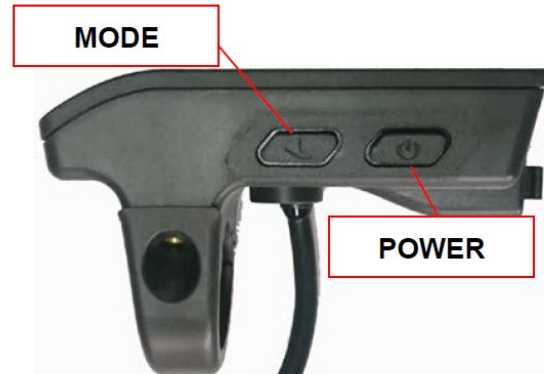
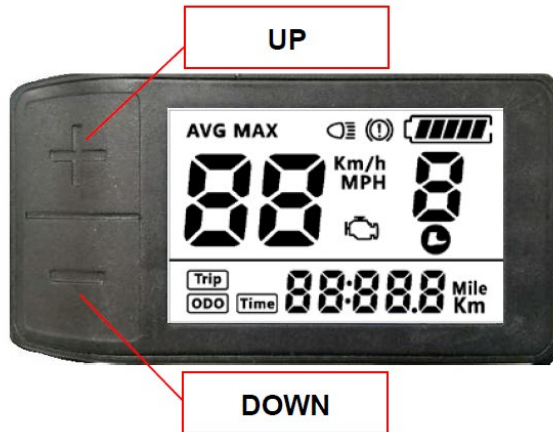
Location on Handlebar	Component
1	LCD Display Remote
2	LCD Display
3	Shifter
4	Twist Throttle and Throttle Power Switch

LCD Display Controls

The display is controlled using the 3-button LCD Display Remote mounted on the left side of the handlebar (depicted at right). The top button shows an arrow pointing UP (1), the middle button is labeled "MODE" (2), and the bottom button shows an arrow pointing DOWN (3). Reference the LCD Display Operations table in this manual for instructions on how to perform various operations using these buttons and, when applicable, other components of the bike.



LCD Functional Description



Power On/Off

Press and hold Power button for 1 second can turn on/off the display. The Display can automatically shut down when the bike isn't being used.

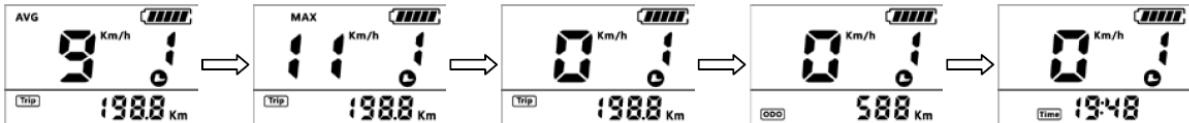
Assist Levels

Short press +/- button can change the assist level.



Speed & Mileage Mode Switch

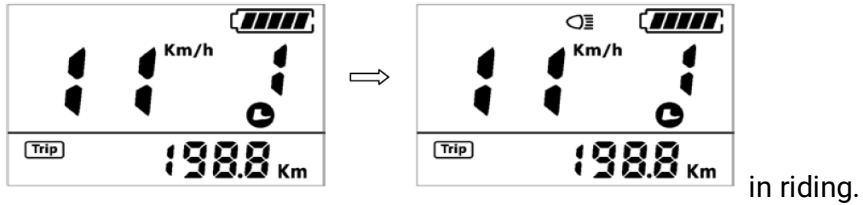
Short press POWER button can change the speed and mileage mode, AVG SPEED→MAX SPEED→TRIP→ODO→TIME.



**If there is no operation for 5 seconds, display will return Speed (Real-Time) display automatically.

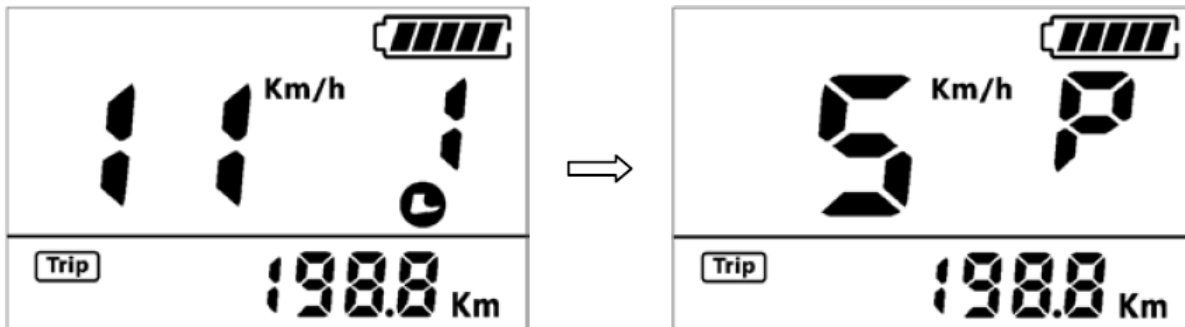
Headlight, taillight & Backlight Turn On/Off

Press and hold + button for 2 seconds to turn on/off the headlight.



Walking Mode (3 mph)

Press and hold - button to activate walking mode.

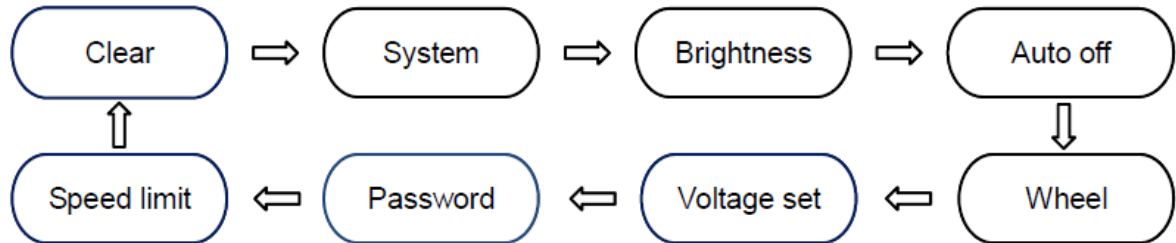


Parameter Settings.

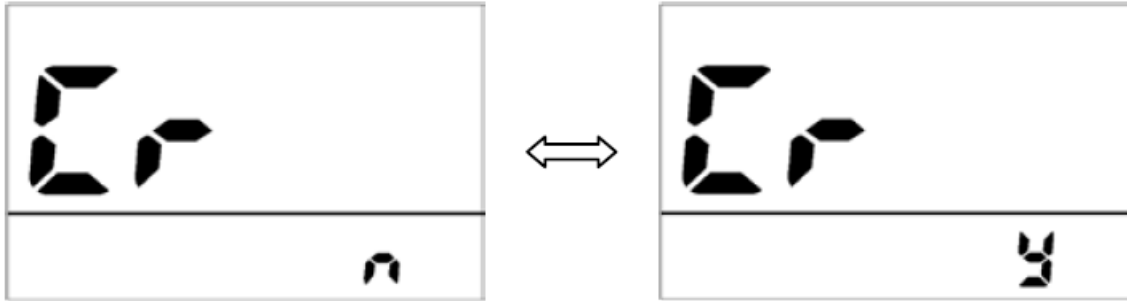
Press MODE button (the button at the bottom left of your screen, press no less than 2 seconds) to get into setting menus, press +/- buttons to change the parameter setting, and press MODE button can switch to next item. Press MODE (press no less than 2 seconds) button in order to exit from menu.

- * Display will automatically quit menu when there is no operation for 10 seconds.
- * For safety reasons, display can't get into MENU when riding.
- * Display will quit MENU when start riding.

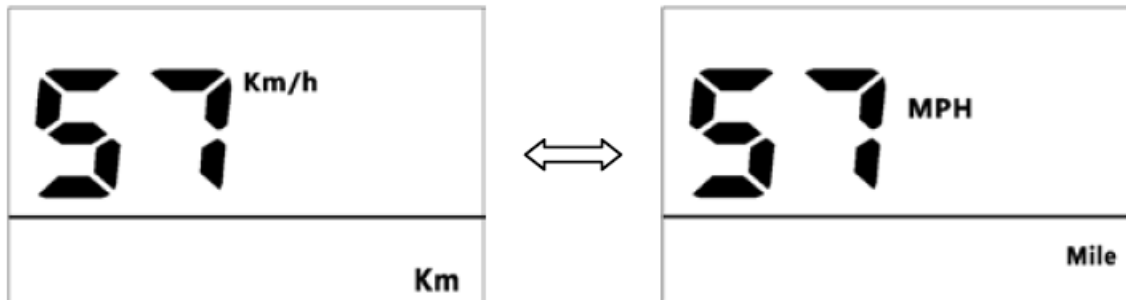
The order of parameters is as follows:



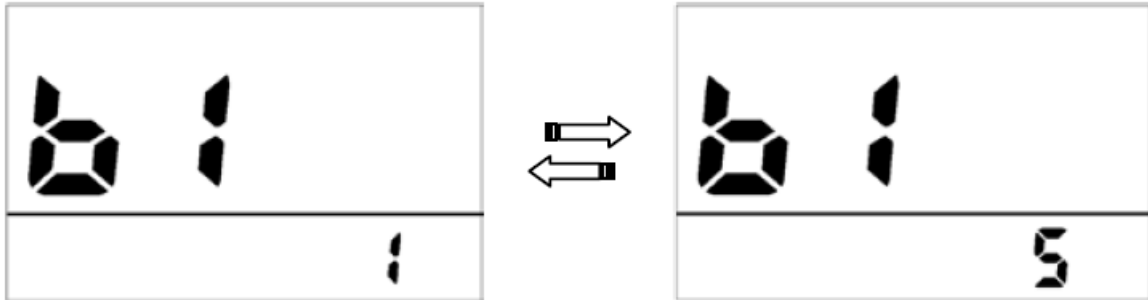
Clear(Cr): Press + / - button to change yes can reset several temporary data, temporary data include **AVG Speed / MAX Speed / Trip / Time.**



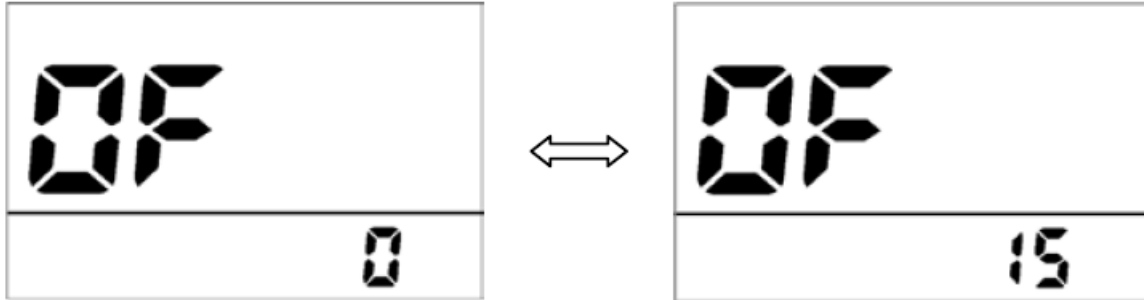
System (S7): Press + / - button to switch between Metric / Imperial.



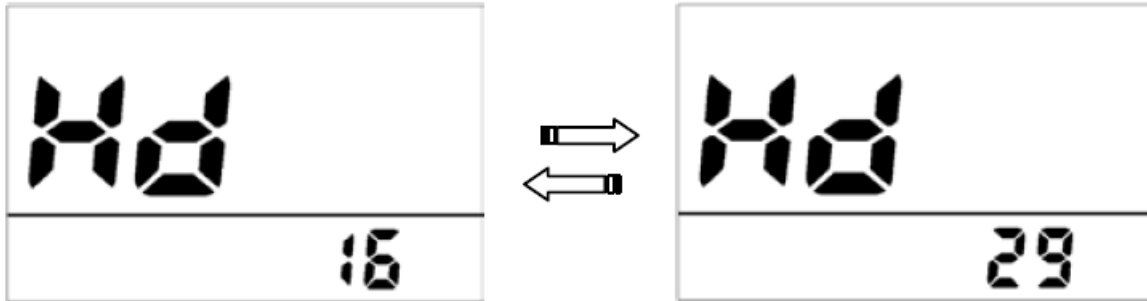
Brightness (b1): Press + / - button to change the brightness of the backlight, 1 is dark 5 is bright.



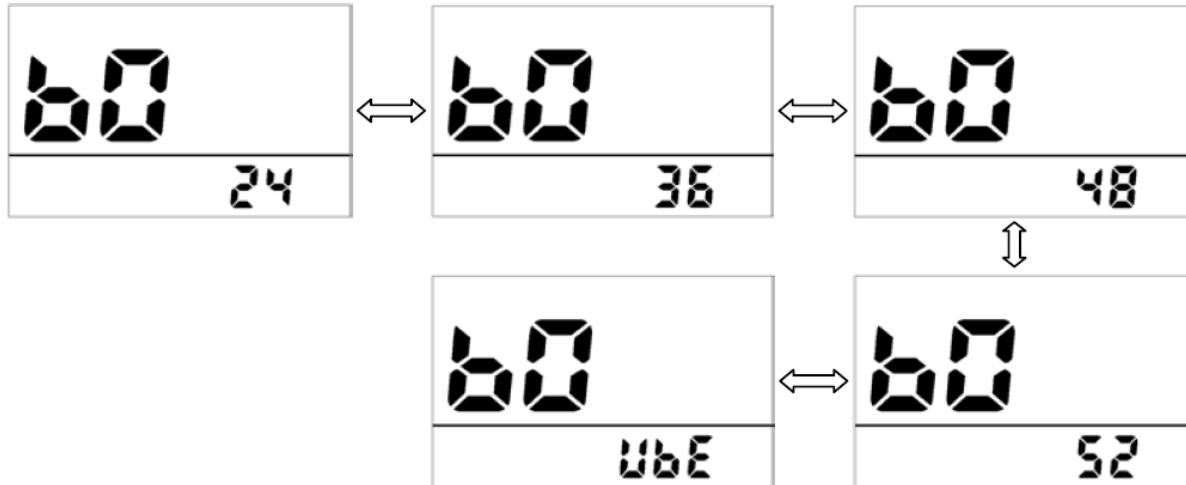
Auto off (OF): Press + / - button to change the auto power off time, from 0~15, the number represent time (minutes) to shutdown, OFF means disable auto off function, default value is 5 minutes.



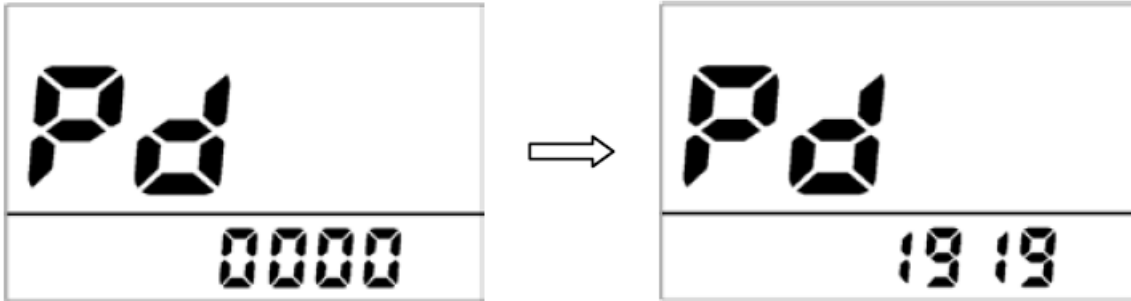
Wheel (Hd): Press + / - can change the wheel setting, optional wheel diameter is 16~29 inch. Please keep M-Class wheel diameter at 20 inches in order to get correct speed readings on the screen.



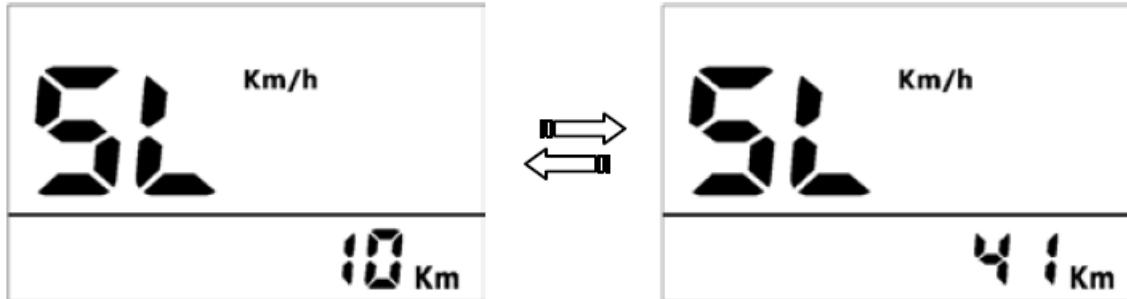
Voltage set(b0) : Press + / - button rotate display the symbol **24V/36V/48V/52V/UbE**, **UbE** means user-defined voltage setting, this parameter can be set through computer. Please do not change this value.




Password (Pd): Press MODE button can get into the advance setting menu, default password is '1919'.



Speed limit (SL): Press + / - will change speed limit, range 10km/h~41km/h. Default value is 25km/h. Please do not set this value greater than 30.



Error Codes

M-class can show warning message,  icon shows on the screen, and show error code at the bottom of the screen, error code is from 01 E~0nE, and the definition see the table below.

Error Code	Error description	Handle
0x21	Current protection	Check controller.
0x22	Throttle error	Check turn to connect.
0x23	three-phase power error	Check three-phase power line connection
0x24	Hall error	Check the hall connection
0x25	Brake error	Check the brake connection.
0x26~99	Reserved	Please contact the manufacturer for error definitions
0x30	Communication Error	Check the cable connection



Best Practices for Extending Range and Battery Life

Notice: It is recommended that users pay close attention and ride within the following limitations to ensure the mid-drive motor does not overheat or become damaged from excessive loading.

- To ensure adequate airflow to cool the electric components, keep the bike moving over 10 mph.
- Pedal to assist the motor when accelerating from a stop and climbing hills.
- Do not climb hills steeper than 15% in grade.
- Avoid sudden starts and stops.
- Accelerate slowly.

Driving Range

The range of your bike from Ariel Rider E-bikes is the distance the bike will travel on a single full charge of the onboard battery pack. The range values in this manual are estimates based on Ariel Rider E-bikes expected usage characteristics. Some of the factors which effect range include changes in elevation, speed, payload, acceleration, number of starts and stops, and ambient air temperatures. Tire pressure and terrain are also important variables to consider.

We suggest that you select a lower assistance level when you first get your bike from Ariel Rider E-bikes to get to know your bike and travel routes. Once you become familiar with the range requirements of your travel routes and the capabilities of your bike from Ariel Rider E-bikes, you can then adjust your riding characteristics if you so desire.

The following table provides general estimates and outlines various factors effecting range and their combined estimated effects on range. This table is meant to help owners understand the factors that can contribute to decreased range, but Ariel Rider E-bikes makes no claims to the range that individual users might experience in a

particular use case, conditions, or riding characteristics.

Expected Range	Operating Condition(s)
20 mi (32 km)	<ul style="list-style-type: none">○ Hilly Terrain○ Heavy Payload○ Windy○ High Pedal Assist Level/ High Throttle Use○ Light Pedaling
30 mi (48 km)	<ul style="list-style-type: none">○ Flat Terrain○ Normal Payload○ Not Windy○ Medium Pedal Assist Level/ Moderate Throttle Use○ Light Pedaling
40 mi (64 km)	<ul style="list-style-type: none">○ Flat Terrain○ Normal Payload○ Not Windy○ Low Pedal Assist Level/ Minimal Throttle Use○ Moderate to Heavy Pedaling



The rear rack is designed for no more than 40 lb (18 kg) of total cargo, regardless of any third-party rear rack accessories which might carry a higher weight rating. Heed this 40 lb (18 kg) limit, or damage to the rider, passenger, or to your bike from Ariel Rider E-bikes can occur.



You MUST hold onto the bike whenever loading cargo and/or a passenger. The kickstand is not designed to be used for loading cargo. Do not assume the bike is stable and balanced when using the kickstand. Always hold onto the bike when cargo is being loaded, in place, or attached to the bike by Ariel Rider E-bikes.

Carrying Cargo

Carrying a cargo load involves additional risks, which require special attention and care to mitigate and manage. Braking, acceleration, and balancing are all significantly affected by the addition of cargo loaded on the M-class. You must become accustomed to the braking, steering, and operational adjustments required to safely operate the M-Class with cargo. Users should practice riding on a flat and open area with light cargo before attempting to carry heavier loads.

Notice: The following bulleted list provides important tips for the safe operation of the M-class when used for carrying cargo.

- Cargo should be loaded as low as possible to lower the center of gravity and improve stability, but cargo should not interfere with any moving components or the ground.
- Ensure your loads are properly secured and periodically check that nothing loosens, risks interfering with any moving components, or could risk touching or dragging on the ground.

- Plan your route accordingly since a rider's hill climbing ability, steering, and braking are all impacted when cargo is loaded on the M-class. Hills that are normally easy to climb and descend without cargo can become challenging and dangerous once cargo is loaded onto the bike.
- Become proficient at controlling the M-class with the cargo load in a flat and open area before riding on roads or hills.



Do not use the front brake by itself. Use both brakes for all braking operations. Braking with only the front brake can cause excessive stress on components, damage to the bike and parts, and/or loss of control.



The kickstand is not designed to be used for loading cargo or childseats. You MUST hold onto the bike whenever loading cargo, especially when loading precious cargo and children. Do not assume the bike is stable and balanced when using the kickstand, always hold onto the bike when cargo is being loaded or in place.

Parking, Storage, and Transport

Please follow these basic parking, storage, and transport tips to ensure your bike is well cared for on and off the road.

- When pushing or carrying the bike manually, turn off the power to avoid accidental acceleration from the motor.
- Switch the power and any lights off to conserve battery. Remove the key from the bike and ensure the battery is locked to the frame in the off position or use the key to remove the battery and bring it with you for security.
- It is recommended to park indoors. If you must park outdoors in rain or wet conditions, you should only leave your bike from Ariel Rider E-bikes outside for a few hours and proceed to park the bike in a dry location afterwards to allow all the systems to dry out. Much like a regular bike, use in wet conditions mandates a more regular maintenance schedule to ensure your bike does not become rusty, corroded, and to ensure all systems are always working safely.
- In public places, your bike from Ariel Rider E-bikes must be parked in accordance

with local rules and regulations.

- Locking up your bike is recommended to ensure your bike is secure and the chance of theft is reduced. Ariel Rider E-bikes makes no claims or recommendations on the proper lock hardware or procedures to secure your bike, but we do recommend you take the appropriate precautions to keep your bike from Ariel Rider E-bikes safe from theft.
- Do not park, store, or transport your bike from Ariel Rider E-bikes on a rack not designed for the bike's size and weight.
- Use a rack compatible with the width of tires used on your bike. Some racks may not accommodate all tire widths.
- When storing your bike or carrying your bike on a rack for transport, remove the battery pack to reduce the weight of the bike, make lifting and loading easier, and to protect the battery by transporting in the cab of a vehicle.
- Avoid transporting Ariel Rider E-bikes on a vehicle rack during rain, as this may cause water damage to the electrical components. Contact Ariel Rider E-bikes Technical Support if you have questions about preventative measures.

Maintenance

Basic Bike Care

To ensure safe riding conditions you must properly maintain your bike from Ariel Rider E-bikes. Follow these basic guidelines and see a certified, reputable bike mechanic at regular intervals to ensure your bike is safe for use and fun to ride. See the Pre- Ride Safety Checklist and Recommended Service Intervals sections below for more detailed information.

1. Properly maintain batteries by keeping them fully charged when between uses of up to two weeks apart. See Long- Term Battery Storage section of this manual for information on storing the battery for longer than two weeks between rides.
2. Never immerse or submerge the bike or any components in water or liquid as the electrical system may be damaged.
3. Periodically check wiring and connectors to ensure there is no damage and the connectors are secure.
4. To clean, wipe the frame with a damp cloth. If needed, apply a mild non-corrosive detergent mixture to the damp cloth and wipe the frame. Dry by

wiping with a clean, dry cloth.

5. Store under shelter; avoid leaving the bike in the rain or exposed to corrosive materials. If exposed to rain, dry your bike afterwards and apply anti-rust treatment to chain and other unpainted steel surfaces.
6. Riding on the beach or in coastal areas exposes your bike to salt, which is very corrosive. Wipe down your bike frequently and wipe or spray all unpainted parts with anti-rust treatment. Damage from corrosion is not covered under warranty so special care should be given to extend the life of your bike when used in coastal areas or areas with salty air or water.
7. If the hub and bottom bracket bearings have been submerged in water or liquid, they should be taken out and re-greased. This will prevent accelerated bearing deterioration.
8. If the paint has become scratched or chipped in the metal, use touch up paint to prevent rust. Clear nail polish can also be used as a preventative measure.
9. Regularly clean and lubricate all moving parts, tighten components, and adjust as required.

10. The M-class comes equipped with a full fender set, which should be inspected to ensure mounting hardware is properly secured and these parts are in good working condition.

Tire Inflation and Replacement

The M-class employs 20" x 1.75" rubber tires with inner tubes. The tubes use Schrader valves to adding/reducing air pressure. The tires are designed for durability and safety for regular cycling activities and the tires need to be checked before each use for proper inflation and condition. Proper inflation, care, and timely replacement will help to ensure that your bike's operational characteristics will be maintained, and unsafe conditions avoided.



It is critically important that proper air pressure is always maintained in pneumatic tires. Do not underinflate or overinflate your tires. Low pressure may result in loss of control, and overinflated tires may burst. Failure to always maintain the air pressure rating indicated on pneumatic tires may result in tire and/or wheel failure.



Inflate your tires from a regulated air source with an available pressure gauge. Inflating your tires from an unregulated air source could overinflate them, resulting in a burst tire.



When changing a tire or tube, ensure that all air pressure has been removed from the inner tube prior to removing tire from the rim. Also ensure that the bike is turned off, and the battery is taken out. Failure to remove all air pressure from the inner tube could result in serious injury.



Using aftermarket tires or inner tubes, not provided by Ariel Rider E-bikes may void your warranty, create an unsafe riding condition, or damage to your bike from Ariel Rider E-bikes. If required by law, ensure replacement aftermarket tires have sufficient reflective sidewall striping.

Pre-Ride Safety Checklist

Safety Check	Basic Steps
1. Brakes	<ul style="list-style-type: none"> ○ Ensure front and rear brakes work properly. ○ Check brake pads for wear and ensure they are not over-worn. ○ Ensure brake pads are correctly positioned in relation to the rims. ○ Ensure brake control cables are lubricated, correctly adjusted, and display no obvious wear. ○ Ensure brake control levers are lubricated and tightly secured to the handlebar. ○ Test brake levers are firm and that brake, motor cutoff functions, and brake light are functioning properly.
2. Wheels and Tires	<ul style="list-style-type: none"> ○ Ensure tires are inflated to within the recommended limits displayed on the tire sidewalls and holding air. ○ Ensure tires have good tread, have no bulges or excessive wear, and are free from any other damage. ○ Ensure rims run true and have no obvious wobbles, dents, or kinks. ○ Ensure all wheel spokes are tight and not broken. ○ Check axle nuts and front wheel quick release to ensure they are tight. Ensure the locking lever on the quick release skewer is correctly tensioned, fully closed, and secure position.
3. Steering	<ul style="list-style-type: none"> ○ Ensure handlebar and stem are correctly adjusted and tightened and allow proper steering. ○ Ensure the handlebar is set correctly in relation to the forks and the direction of travel.

4. Chain	<ul style="list-style-type: none"> ○ Ensure the chain is oiled, clean, and runs smoothly. ○ Extra care is required in wet, salty/otherwise corrosive, or dusty conditions
5. Bearings	<ul style="list-style-type: none"> ○ Ensure all bearings are lubricated, run freely, and display no excess movement, grinding, or rattling. ○ Check headset, wheel bearings, pedal bearings, and bottom bracket bearings.
6. Cranks and Pedals	<ul style="list-style-type: none"> ○ Ensure pedals are securely tightened to the cranks. ○ Ensure the cranks are securely tightened and are not bent.

Notice: Before each ride, and after every 25-45 miles, we advise following the pre-ride safety checklist in the table below.

7. Derailleurs	<ul style="list-style-type: none"> ○ Check that the derailleur is adjusted and functioning properly. ○ Ensure shifter and brake levers are attached to the handlebar securely. ○ Ensure all brake and shift cables are properly lubricated.
8. Frame, Fork, and Seat	<ul style="list-style-type: none"> ○ Check that the frame and fork are not bent or broken. ○ If either frame or fork are bent or broken, they should be replaced. ○ Check that the seat is adjusted properly, and seat post quick release lever is securely tightened.
9. Motor Drive Assembly and Throttle	<ul style="list-style-type: none"> ○ Ensure hub motor is spinning smoothly and motor bearings are in good working order. ○ Ensure all power cables running to hub motor are secured and undamaged. ○ Make sure the hub motor axle bolts are secured and all torque arms and torque washers are in place.
10. Battery Pack	<ul style="list-style-type: none"> ○ Ensure battery is charged before use. ○ Ensure there is no damage to battery pack. ○ Lock battery to frame and check to see that it is secured. ○ Charge and store bike and battery in a dry location, between 50-80 degrees Fahrenheit. Let bike dry completely for using again.
11. Electrical Cables	<ul style="list-style-type: none"> ○ Look over connectors to make sure they are fully seated, free from debris or moisture. ○ Check cables and cable housing for obvious signs of damage. ○ Ensure headlight, taillight, and brake light are functioning, adjusted properly, and unobstructed.

12. Accessories

- Ensure all reflectors are properly fitted and not obscured.
- Ensure all other fittings on bike are properly secured and functioning.
- Inspect helmet and other safety gear for signs of damage.
- Ensure rider is wearing helmet and other required riding safety gear.
- Ensure mounting hardware is properly secured if fitted with rear rack.
- Ensure taillight and taillight power wire are properly secured if fitted with rear rack.
- Ensure fender mounting hardware is properly secured if fitted with fenders.
- Ensure there are no cracks or holes in fenders if fitted with fenders.



Your cables, spokes, and chain will stretch after an initial break-in period of 50-100 mi (80-160 km), and bolted connections can loosen. Always have a certified, reputable bike mechanic perform a tune-up on your M-class after your initial break-in period of 50-100 mi (80-160 km) (depending on riding conditions such as total weight, riding characteristics, and terrain).

Regular inspections and tune-ups are particularly important for ensuring that your bike remains safe and fun to ride.

Recommended Service Intervals

Interval	Inspect	Service	Replace
Weekly , 100- 200 miles	<ul style="list-style-type: none"> - Check hardware for proper torque: See Recommended Torque Values chart. - Check drivetrain for proper alignment and function (including the chain, freewheel, chainring, and derailleur). - Check wheel trueness and for quiet wheel operation (without spoke noise). - Check condition of frame for any damage. 	<ul style="list-style-type: none"> - Clean frame by wiping frame down with damp cloth. - Use barrel adjuster(s) to tension derailleur/brake cables if needed. 	<ul style="list-style-type: none"> - Any components confirmed by Ariel Rider E-bikes Technical Support or a certified, reputable bike mechanic to be damaged beyond repair or broken.
Monthly , 250- 750 miles	<ul style="list-style-type: none"> - Check brake pad alignment, brake cable tension. - Check bike is shifting properly, proper derailleur cable tension. - Check chain stretch. - Check brake and shifter cables for corrosion or fraying. - Check spoke tension. - Check accessory mounting (rack mounting 	<ul style="list-style-type: none"> - Clean and lubricate drivetrain. - Check crankset and pedal torque. - Clean and optionally lubricate brake and shift cables. - True and tension wheels if any loose spokes are discovered. 	<ul style="list-style-type: none"> - Replace brake and shift cables if necessary. - Replace brake pads if necessary.

	bolts, fender hardware, and alignment).		
Every 6 Months, 750-1250 miles	<ul style="list-style-type: none"> - Inspect drivetrain (chain, chainring, freewheel, and derailleur). - Inspect all cables and housings. 	<ul style="list-style-type: none"> - Standard tune-up by certified, reputable bike mechanic is recommended. - Grease bottom bracket. 	<ul style="list-style-type: none"> - Replace brake pads. - Replace tires if necessary. - Replace cables and housings if necessary.

Regular inspection and maintenance are key to ensure bikes from Ariel Rider E-bikes function as intended, and to reduce wear and tear on their systems. Recommended service intervals are meant to be used as guidelines. Real world wear and tear, and the need for service, will vary with conditions of use. We generally recommend inspections, service, and necessary replacements be performed at the time or mileage interval that comes first in the following table.

Troubleshooting

Basic Troubleshooting

	Symptoms	Possible Causes	Most Common Solutions
1	It doesn't work	<ol style="list-style-type: none">1. Insufficient battery power2. Faulty connections3. Battery not fully seated in tray4. Improper turn on sequence5. Brakes are applied	<ol style="list-style-type: none">1. Charge the battery pack2. Clean and repair connectors3. Install battery correctly4. Turn on bike with proper sequence5. Disengage brakes
2	Irregular acceleration and/or reduced top speed	<ol style="list-style-type: none">1. Insufficient battery power2. Loose or damaged throttle	<ol style="list-style-type: none">1. Charge or replace battery2. Replace throttle
3	When powered on the motor does not respond	<ol style="list-style-type: none">1. Loose wiring2. Loose or damaged throttle3. Loose or damaged motor plug wire4. Damaged motor	<ol style="list-style-type: none">1. Repair and or reconnect2. Tighten or replace3. Secure or replace4. Repair or replace

4	Reduced range	<ol style="list-style-type: none"> 1. Low tire pressure 2. Low or faulty battery 3. Driving with too many hills, headwind, braking, and/or excessive load 4. Battery discharged for long period of time without regular charges (aged or damaged) 5. Brakes rubbing 	<ol style="list-style-type: none"> 1. Adjust tire pressure 2. Check connections or charge battery 3. Assist with pedals or adjust route 4. Replace the battery 5. Adjust the brakes
5	The battery won't charge	<ol style="list-style-type: none"> 1. Charger not well connected 2. Charger damaged 3. Battery damaged 4. Wiring damaged 	<ol style="list-style-type: none"> 1. Adjust the connections 2. Replace 3. Replace 4. Repair or replace
6	Wheel or motor makes strange noises	<ol style="list-style-type: none"> 1. Damaged motor bearings 2. Damaged wheel spokes or rim 3. Damaged motor wiring 	<ol style="list-style-type: none"> 1. Replace 2. Repair or replace 3. Repair or replace motor.

Error Detection

Your bike from Ariel Rider E-bikes is equipped with an error detection system integrated into the display and controller. In the case of an electronic control system fault an error code should display.

If your bike has an error code displayed at any time it is recommended that you cease operation and contact Ariel Rider E-bikes immediately.

Warnings and Safety

General Operating Rules

Notice: It is recommended that users pay special attention to all the general operating rules below before operating their bike from Ariel Rider E-bikes.

- When riding, obey the same road laws as all other road vehicles as applicable by law in your area.
- For additional information regarding traffic/vehicles laws, contact the road traffic authority in your area.
- Ride predictably, in a straight line, and with the flow of traffic. Never ride against traffic.
- Use correct hand signals to indicate turning.
- Ride defensively; to other road users you may be hard to see.
- Concentrate on the path ahead. Avoid potholes, gravel, wet or oily roads, wet leaves, curbs, train tracks, speed bumps, drain gates, thorns, broken glass, and other obstacles, hazards, and puncture flat risks.
- Cross train tracks at a 90-degree angle or walk your bike across.
- Expect the unexpected such as opening car doors or cars backing out of driveways.
- Be careful at intersections and when preparing to pass other vehicles or other

cyclists.

- Familiarize yourself with all the features and operations of the bike by Ariel Rider E-bikes. Practice and become proficient at shifting gears, applying the brakes, using the power assist system, and using the throttle in a controlled setting before riding in riskier conditions.
- Wear proper riding clothes including closed-toe shoes. If you are wearing loose pants, secure the bottom using leg clips or elastic bands to prevent them from being caught in the chain or gears. Do not use items that may restrict your hearing.
- Check your local rules and regulations before carrying cargo.
- When braking, apply the rear brake first, then the front brake. If brakes are not correctly applied, they may lock up, you may lose control, and you could fall.
- Maintain a comfortable stopping distance from all other objects, riders, and vehicles. Safe braking distances are based on forces such as road surface and light conditions among other variables.

Safety Notes



The following safety notes provide additional information on the safe operation of your bike from Ariel Rider E-bikes and should be closely reviewed. Failure to review these notes can lead to serious injury or death.

- All users must read and understand this manual before their first use of the bike from Ariel Rider E-bikes. Additional manuals for components used on the bike may also be provided and should be read before use in addition to this manual.
- Ensure that you comprehend all instruction and safety notes/warnings.
- Ensure the bike fits you properly before your first use. You may lose control or fall if your bike is too big or too small.
- Always wear an approved bicycle helmet whenever using this product and ensure that all helmet manufacturer instructions are used for fit and care of your helmet. Failure to wear a helmet when riding may result in serious injury or death.
- Ensure correct setup and tightening is performed on your bike before first using it and check the setup, tightening, and condition regularly.
- It is your responsibility to familiarize yourself with the laws and requirements of operating this product in the area(s) where you ride.

- Ensure the handlebar grips are undamaged and properly installed. Loose or damaged grips can cause you to lose control and fall.
- Do not use this product with standard bike trailers, stands, vehicle racks, or accessories that Ariel Rider E-bikes has not tested for safety and compatibility and have verified as safe and compatible with the bike. Contact Ariel Rider E-bikes to check if your equipment will work with the bike.
- Off-road riding requires close attention, specific skills, and presents variable conditions and hazards which accompany the conditions. Wear appropriate safety gear and do not ride alone in remote areas. Check local rules and regulations if off-road ebike riding is allowed.
- Engaging in extreme riding is extremely dangerous and should be avoided. Although many articles/advertisements/catalogs depict extreme riding, this is not recommended nor permitted, and you can be seriously injured or killed if you perform extreme riding.

- Bikes and bike parts have strength and integrity limitations and extreme riding should not be performed as it can damage bike components and/or cause or lead to dangerous riding situations in which you may be seriously injured or killed.
- Failure to perform and confirm proper installation, compatibility, proper operation, or maintenance of any component or accessory can result in serious injury or death.
- After any incident, you must consider your bike unsafe to ride until you consult with a certified, reputable bike mechanic for a comprehensive inspection of all components, functions, and operations of the bike.
- Failure to properly charge, store, or use your battery will void the warranty and may cause a hazardous situation.
- You should check the operation of the brake motor cutoff switches before each ride. The brake system is equipped with an inhibitor which cuts off power to the electric motor whenever the brakes are engaged. Check proper operation of brake motor cutoff switches before riding.
- Extreme care should be taken when using the pedal assistance sensor and throttle on this product. Ensure you understand and are prepared for the power assistance to engage as soon as pedaling is underway.

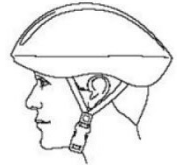
- Users must understand the operation of the twist throttle and pedal assistance sensors before using the bike and take ample care in their usage in respect to traveling at speeds appropriate for the usage area, riding conditions, and user experience level. Always use the lowest assist level until you are comfortable with the bike and feel confident in controlling the power.
- Any aftermarket changes to your bike from Ariel Rider E-bikes not expressly approved by Ariel Rider E-bikes could void the warranty and create an unsafe riding experience.
- Because electric bikes are heavier and faster than normal bikes, they require extra caution and care while riding.
- Take extra care while riding in wet conditions. Feet or hands can slip in wet conditions and lead to serious injury from a fall or death.
- Do not remove any reflectors or the bell.

Helmets

It is strongly advised that a properly fitting ANSI or SNELL approved bicycle safety helmet is always worn when riding your bike.



Always wear a properly fitted helmet which covers the forehead when riding a bike. Many locations require specific safety devices. It is your responsibility to familiarize yourself with the local laws, rules and regulations where you ride and to comply with all applicable laws, including properly equipping yourself and your bike as the law requires.



General Warnings



Read and understand all sections of this entire manual before operating the bike for the first time. There are important safety warnings throughout the whole manual that must be followed to prevent dangerous situations, accidents, and possible injury and/or death.



Like any sport, bicycling involves risk of damage, injury, and death. By choosing to ride a bike, you assume the responsibility for that risk, so you need to know, and practice, the rules of safe and responsible riding and the proper use and maintenance of this bike. Proper use and maintenance of your bike reduces risk of

damage, injury, and death.



Biking and controlled substances do not mix. Never operate a bike while under the influence of alcohol, drugs, or any substance or condition that could impair motor functions, judgement, or the ability to safely operate a bike/vehicle.



The M-class is designed for use by persons 18 years old and older. Riders must have the physical condition, reaction time, and mental capability to ride safely and manage traffic, road conditions, sudden situations, and respect the laws governing electric bike use where they ride, regardless of age. If you have an impairment or disability such as a visual impairment, hearing impairment, physical impairment, cognitive/language impairment, or a seizure disorder, consult your physician before riding any bike.

Wet Weather



It is recommended to not ride in wet weather if avoidable. Ride in wet weather only if necessary.

This electric bike is not meant for use in puddles, heavy rain, or streams. Never immerse or submerge this product in water or liquid as the electrical system may be damaged.

- In wet weather you need to take extra care when operating this bike.
- Decrease riding speed to help you control the bike in slippery conditions.
- Brake earlier since it will take longer to slow than when operated in dry conditions.
- Take care to be more visible to others on the road. Wear reflective clothing and use approved safety lights.
- Road hazards are more difficult to see when wet; proceed with caution.

Night Riding



It is recommended to not ride at night if avoidable. Ride at night only if necessary.

- Wear reflective and light-colored clothing.
- Slow down and use familiar roads with street lighting, if possible.
- Ensure tire wall, pedal, and other reflectors are installed and unobstructed.
- Ensure head light and taillight/brake light are functioning correctly and use them.

A Note for Parents and Guardians

As a parent/guardian, you are responsible for the activities and safety of your child. The M-class is not designed for use by children. If you are carrying a passenger in a child safety seat, they must also be wearing a helmet. Additional safety information regarding helmets is in the Helmet section of this manual. See Carrying Children section of this manual for more information on keeping children safe when being transported in an approved child safety seat attached to the Rear Rack of the M-class.

Limited Warranty

Warranty Info

Every bike by Ariel Rider E-bikes is covered under a manufacturer's one-year all-inclusive warranty for the original owner against all manufacturing defects. Warranty details below are subject to change at any time; for the most current warranty version, visit <https://arielrider.com/pages/warranty>. Ariel Rider E-bikes warrants this product, including all individual components against defects in material or workmanship as follows:

Ariel Rider E-bikes' bike components including frame, forks, stem, handlebar, headset, seat post, seat saddle, brakes, lights, bottom bracket, crank set, pedals, rims, wheel hub, freewheel, cassette, derailleur, shifter, motor, throttle, controller, wiring harness, LCD display, kickstand, reflectors, and hardware are warranted to be free from manufacturing defects in materials and/or workmanship for a 1-year period from the date of original purchase.

Ariel Rider E-bikes' lithium ion batteries are warranted to be free from manufacturing defects in materials and/or workmanship for a 1-year period from the date of original purchase. The battery warranty does not include damage from power surges, use of improper charger, improper maintenance or other such misuse, disassembly, normal

wear, or water damage.

Warranty Exclusions

- Liability for material defects does not cover normal wear and tear, which occurs from the manufacturers' intended use of the product. Components such as the battery pack, motor system, braking system, drivetrain system, seat, grips and pedals are all subject to intended use-related wear and are not covered under the warranty from normal wear.
- Damage arising from the use of the bike in a competition or other applications outside of normal intended use.
- Damage arising from improper tools, improper assembly, or improper maintenance performed on the bike.
- Damage resulting from adding non-standard equipment, parts, or modifications.

Additional Warranty Terms

This warranty does not cover any damage or defects resulting from failure to follow instructions in the owner's manual, acts of God, accident, misuse, neglect, abuse, commercial use, alterations, modification, improper assembly, wear and tear, installation of parts or accessories not originally intended or compatible with the bike as sold, operator error, water damage, extreme riding, stunt riding, or improper follow-up maintenance. This warranty does not include normal wear and tear or consumable parts designed to wear down over time, including tires, tubes, brake pads, cables and housing, spokes, and handlebar grips.

Ariel Rider E-bikes will not be liable and/or responsible for any damage, failure, or loss caused by any unauthorized service or use of unauthorized parts. In no event shall Ariel Rider E-bikes be responsible for any direct, indirect, or consequential damages, including without limitation, damages for personal injury, property damage, or economic losses, whether based on contract, warranty, negligence, or product liability in connection with their products. All claims to this warranty must be made through Ariel Rider E-bikes. Proof of purchase is required with any warranty request.

Information on Component Wear

Components of the M-Class are subject to higher wear when compared to bikes

without power assistance. This is because the M-Class can travel at higher average speeds than regular cycles and has a greater weight. Higher wear is not a defect in the product and is not subject to warranty. Typical components affected are the tires, brake pads and rotors, suspension forks, spokes, wheels, and the battery pack.



When the useful life of a component is surpassed it can cause unexpected loss of function. This can result in serious injuries or even death. Therefore, pay attention to wear characteristics such as cracks, scratches, or changes in the color or operation of components which could indicate useful life has been exceeded. Worn components should be replaced immediately. If you are unfamiliar with regular maintenance, a certified, reputable bike mechanic should be consulted.

We are here to help!

If you have questions, please:

Access Ariel Rider E-bikes Help Center

(www.arielrider.com/help), Contact us

directly by email to

info@arielrider.com