

REGISTER / ENREGISTRER / REGISTRA / REGISTRIERE

Registering your bike is the official way for us to welcome you into the Rocky Mountain family. It's also an important step in activating your bike's warranty. If you ever have an issue, we'll be able to handle your case efficiently and get you back riding as soon as possible. It's easy and only takes a few minutes.

Register your bike: bikes.com/register

L'enregistrement de votre vélo marque votre entrée officielle dans la famille Rocky Mountain, et c'est une étape importante pour en activer la garantie. Ainsi, en cas de problème, nous pourrons le régler efficacement pour vous faire remonter en selle aussitôt que possible. L'enregistrement est facile et ne prend que quelques minutes.

Enregistrer votre vélo: bikes.com/register

La procedura di registrazione della tua bicicletta è il modo ufficiale di accoglierti nella famiglia Rocky Mountain. È inoltre una tappa importante per attivare la garanzia della tua bicicletta. Nel caso in cui si verificasse un problema, potremo gestire il tuo caso in maniera efficiente e farti risalire in sella il più presto possibile. La procedura di registrazione è semplice e richiede solo alcuni minuti.

Registra la tua bicicletta: bikes.com/register

Wenn du dein Bike registrierst, können wir dich offiziell in der Rocky Mountain Familie willkommen heißen. Es ist auch ein wichtiger Schritt für die Aktivierung der Garantie deines Bikes. Solltest du irgendwann ein Problem haben, können wir deinen Fall effizient bearbeiten und dich schnellstmöglich wieder auf dein Bike bringen. Es ist einfach und dauert nur ein paar Minuten.

Registriere dein Bike: bikes.com/register

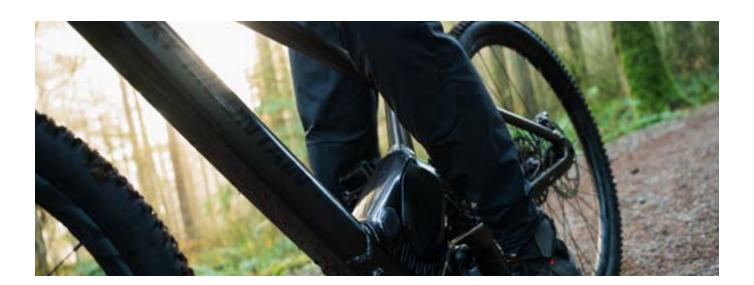


TABLE OF CONTENTS

Introduction	4
Shrediquette	4
warning	5
Getting to know your bike	7
Basic setup	9
Critical dimensions/ Hub fitment/Parts	10
Torque specifiactions	11
Images	13
Jumbotron	15
Battery	<u>19</u>
Motor	23
Rider screens	27
Reset	29
Service	3
Cable routing / Brake installation	33
General maintenance	41
Warranty information	44



INTRODUCTION

This manual contains important safety, maintenance, and use information. Be sure to read it carefully and understand it thoroughly before your first ride on your new PowerplayTM bicycle. This material applies only to the PowerplayTM Drive and should be used in conjunction with your Rocky Mountain Owner's Manual.

Please read the Owner's Manual before your first ride on your Powerplay™ bicycle. If you do not have a copy of your Owner's Manual, you can get it from your nearest authorized Rocky Mountain dealer.

SHREDIQUETTE

Heers

Always be courteous to other trail users. Use extra caution around domestic animals, such as dogs and horses. Give other trail users right-of-way in all situations, during both climbing and descending.

The Altitude and Instinct Powerplay models are designed for Enduro riding in approved areas. The intended use is for riding more difficult terrain that includes moderate jumps and technical features. These models are not designed for extreme forms of riding that include hardcore Dirt Jumping, Freeriding, Downhill, North Shore types of trails and terrain. These models are not intended for large drop-offs, jumps, or launches from wooden structures, or features that require hard landings and harsh obstacles.

Trail

Only ride your Powerplay™ bicycle on trails and paths sanctioned for motorized vehicle use. Follow all local laws and regulations. As with all trail users, care should be taken by all cyclists to avoid impacts to the trail or environment. Do not skid on or modify trails.

Public Roads

Before riding your Rocky Mountain Powerplay model, please inform yourself of all applicable legal requirements and regulations in your country, state, and/or province. There may be restrictions on riding your Powerplay bicycle on public roads, cycling paths, and/or trails. There may also be applicable helmet and light requirements, age restrictions or license or insurance requirements. Rocky Mountain does not, and will not, make any promise, representation, or warranty regarding the use of your Powerplay bicycle. As laws and regulations regarding electric bicycles vary by country and/or state and province and are constantly changing, please make sure to obtain the latest information. You should also regularly see your Authorized Rocky Mountain Bicycles Dealer for updated information.







WARNINGS

Power

Your PowerplayTM bicycle features a powerful pedal assist when force is applied to the pedals. Familiarize yourself with your bike's ride and pedal assist characteristics in safe, flat surroundings before riding it off road.

Instant start

Your Powerplay™ bicycle features "Instant Start" technology, which uses a sophisticated torque sensing circuit to deliver smooth, instant, natural feeling power. This circuit is very sensitive, so care must be taken to ensure the bike does not accelerate from a stop in an unexpected or uncontrolled manner.

Use caution on trails

Your PowerplayTM bicycle accelerates more quickly and handles differently than traditional non-assist bicycles. Use appropriate caution on trails and be aware of your bike's unique handling and acceleration characteristics.

Keep your fingers away

Do not place your fingers or tools near the Drive unit. Maintenance and repair of the drive unit should only be performed by an Authorized Rocky Mountain Service Centre.



Do not modify

Do not modify the Powerplay™ Drive unit or any components directly connected to the drive unit. Maintenance and repair of the drive unit should only be performed by an Authorized Rocky Mountain Service Centre. Any attempt to modify the Powerplay™ Drive unit may result in serious personal injury or death, and will immediately void the bicycle's warranty. all trail users, care should be taken by all cyclists to avoid impacts to the trail or environment. Do not skid on or modify trails.

Riding with a bicycle carrier, child carrier or seat, or trailer

Rocky Mountain bicycles are only designed and tested for use by one person at a time. Carrying a child, pet, or cargo load on your Rocky Mountain Powerplay bicycle is at your own risk. If you choose to install an accessory on your Powerplay model such as a child carrier or a trailer, make sure it is compatible and refer to the manufacturer's instructions and your authorized Rocky Mountain dealer. You should make sure your bicycle is still safe to to ride with the accessory installed. Be sure to not exceed the maximum weight limit of the bicycle when using a trailer or child carrier. Also make sure to not exceed the maximum cargo weight when using a child carrier.

If a child carrier is fitted to your Rocky Mountain Powerplay bicycle behind the saddle, you must ensure that the saddle is free of coil springs to avoid possible injury to the child's fingers.

Riding with kids on your bicycle will affect the handling by altering the center of gravity, weight, and balance. It may also negatively impact your cornering ability, increase your stopping distance, and reduce your ability to slow down and maneuver, especially at higher speeds or down a steep grade. All of this can result in a loss of control, potentially causing serious injury and/or death. You should also become familiar with and practice riding with the accessory in a controlled environment away from traffic.

WARNINGS

Do not attach a child carrier, trailer, or similar accessory to a composite or carbon fiber part or component, either directly or indirectly. For example, do not attach a triangle to a rear axle when the rear triangle is made of composite or carbon fiber. Likewise, do not attach a trailer to a composite or carbon seatpost or a child carrier to a composite or carbon fork. Either may potentially apply unusual forces on your bicycle frame or component which could result in damage and cause a complete failure, with the risk of serious injury or death. If you have previously attached an accessory to a composite or carbon fiber part or component, do not ride until you have had your authorized Rocky Mountain Dealer conduct a careful safety inspection. Before riding with kids on you bicycle, please inform yourself of all applicable legal requirements and regulations in your country and state or province. There may be restrictions on riding your bicycle with certain or any accessory(ies). This is especially true for electric and pedal-assist bicycles.

WARNING 1

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

WARNING 2

For composite components impact damage may be invisible to the user, the manufacturer shall explain the consequences of impact damage and that in the event of an impact; composite components should either be returned to the manufacturer for inspection or destroyed and replaced.

WARNING 3

Do not expose the bicycle to prolonged direct sunlight or excessive heat, such as inside a parked car or near a heat source such as a radiator. Excessive heat may degrade the material properties of components and parts such as batteries, composite parts such as handlebars, crankarms, and other items made of composite materials, and various plastics components that contribute to the integrity of the complete bicycles

WARNING 4

The permissible total payload (rider plus luggage, and the empty weight of the EPAC) is 150kg.

WARNING 5

Failure to follow the warnings in this section may result in damage to the components on your bicycle and will void your warranty, but, most importantly, may result in serious personal injury or death. If your bicycle exhibits any signs of damage, do not use it and immediately bring it to your Rocky Mountain Bicycles Retailer for inspection.

WARNING 6

In the event of a crash or improper assembly, the handlebar and handlebar controls may be compromised and the rider's response to steering and braking safely may be adversely affected.

WARNING 7

Never inflate a tire beyond the lower of the two values of the maximum pressure marked on the tire's sidewall and the maximum pressure marked on the rim that the tire is installed on. Exceeding the recommended maximum pressure may blow the tire off the rim, which could cause damage to the bike and injury to the rider and bystanders.

GETTING TO KNOW YOUR BIKE



TECHNICAL DETAILS

- Reduced size and weight
 - The Dyname 4.0 motor is 18.5% lighter than the previous generation, Dyname 3.0.
 - We've given our motor a weight reduction while also increasing reliability. The Dyname 4.0 motor features oversized bearings for increased drive durability.
- A quiet drive system
 - The Dyname 4.0 features a reduced motor rpm that lowers the amount of the electrical whine compared to other systems.
 - We've removed the upper chain slider that was seen on the Dyname 3.0 drive system to reduce the mechanical noise, as well as the drag when pedalling.
- A responsive, natural power delivery
 - Our system's torque sensor reads the tension that is being applied directly to the chain, and removes unwanted lag time to give an instantaneous and natural response when the power is applied.
 - We've developed a new torque curve that is designed to gradually apply power that achieves a maximum power of 770w at optimal cadence (85rpm). By having a variable power curve, you'll have more control of your bike on the trail including scenarios like steep, technical hill starts.

- Torque and power
 - The Dyname 4.0 drive system packs the same 108Nm of class-leading torque that the Dyname 3.0 brought to our previous generation of bikes.
 - -Our drive system has 770W of peak output, meaning that more watts are delivered when you really need them.
- Jumbotron
 - The Jumbotron is our display screen, seamlessly integrated into the top tube of our new Powerplay bikes. Positioned to show all key data and information in a convenient, easy to see location, the screens can be navigated through using the handlebar remote or the buttons on the Jumbotron itself.
- Battery Size
 - Fusion Powerplay comes with 480Wh battery XS size will only fit 480Wh, but other sizes can be upgraded to a 720Wh battery.

GETTING TO KNOW YOUR BIKE



TECHNICAL DETAILS

- Smaller Remote
 - We've replaced the iWoc that was featured on our previous generation of Powerplay's with a new, smaller remote.

 Designed by us, our new remote has better ergonomics for you as the rider and is focused on keeping the cockpit clean and uncluttered. The smaller design also allows it to be used in combination with more shifter and brake options.
- Charging
 - We have a 4-amp charger and a 2-amp charger for the all-new Powerplay models, both of which quickly refuel your battery to get you back out there, faster. The less powerful of the two, the 2-amp charger, will charge the battery from 0-100% in 7 hours and 35 minutes which out paces the competition.

- Secure and Internal Routing
 - There are internal cable trays with secure tie downs to ensure a rattle free ride while making it easy to run cables and housing, even if you prefer a Moto-Style setup with the front brake on the right hand side.
- Added protection, guards, and chainguide
 - The frames feature downtube protection, noise cancelling chainstay protection, and downtube shuttle guards.

COCKPIT SETUP

Seatpost insertion

Both the frame and seatpost have minimum insertion requirements. In addition, the frame has a maximum insertion requirement to prevent damage to the frame and seatpost.

Minimum insertion

- The seatpost must be inserted in the frame deep enough so the minimum insertion / maximum extension mark on the seatpost is not visible. The frame requires a minimum insertion of 100mm.

Maximum insertion

- The seat tube is reamed to a specified maximum insertion depth for each frame size. This ream depth limits the insertion depth of the seatpost. Please refer to the Critical Dimensions portion of this manual.

Correct seatpost fitment

- If the desired seat height cannot be achieved within the minimum and maximum insertion requirements, the seatpost should be replaced for a shorter or longer one.

Brakes

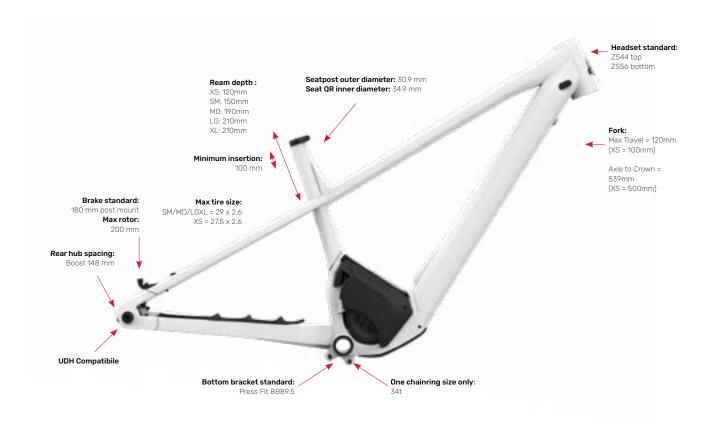
Due to the complexity and specification variances of the Powerplay models, proper assembly and setup requires a high degree of mechanical expertise, skill, training, and specialty tools. Therefore, it is essential for your safety that the assembly of the complete Powerplay model and setup, including brake setup, be performed by an authorized Rocky Mountain Bicycles dealer. Before your ride, make sure your bicycle and components are assembled and adjusted in accordance with the manufacturer's instructions and are functioning properly.







CRITICALS DIMENSIONS



10

Hub fitment

Shimano XTR centerlock hubs are not compatible with the Powerplay frames due to fitment issues with the Rocky Mountain centerlock speed sensor magnet.

Full list of Parts & Exploded View

Click <u>HERE</u> to visit the Exploded View & the complete list of parts including part numbers, descriptions, torque values and assembly instructions for the Powerplay.

Small Parts Kits

Click HERE to visit the complete list of parts including part numbers, descriptions, and assembly instructions.

FASTENER TORQUE SPECIFICATIONS

Correct tightening torque of threaded fasteners is very important to your safety. Always tighten fasteners to the correct torque. In case of a conflict between the instructions in this manual and information provided by a component manufacturer, consult with your dealer or the manufacturer's customer service representative for clarification. Bolts that are too tight can stretch and deform. Bolts that are too loose can move and fatigue. Either mistake can lead to a sudden failure of the bolt.

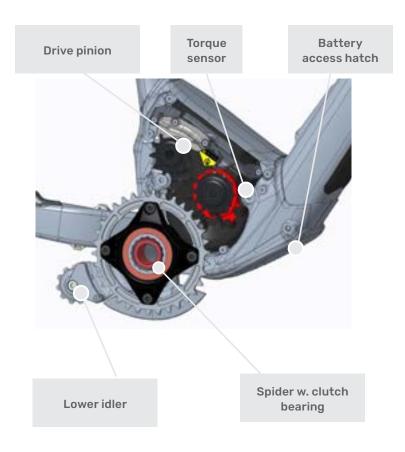
Always use a correctly calibrated torque wrench to tigthen critical fasteners on your bike. Carefully follow the torque wrench manufacturer's instructions on the correct way to set and use the torque wrench for accurate results.

SEAT POST	MODEL	IN-LB	N-M
Dropper Post	Fox Transfer Race Face Turbine R	45	5.1
Dropper Post	Race Face Aeffect R	70	8
Dropper Post	Rocky Mountain Toonie Droppe X Fusion Manic	70 - 88	8 - 10
SEAT COLLAR		IN-LB	N-M
Single Bolt Collar	Rock Mountain Single Bolt seat collar - SC66R	35 - 44	4 - 5
PEDALS		IN-LB	
Pedals	General recommandation. Consult manufacturer specification	305 -480	35 - 55
CRANKS		IN-LB	
Crankset	Next R crank bolt Turbine crank bolt	442	50
Crankset	Aeffect Aeffect R Ride crank bolt	540	61
Clutch Lock Ring	Rocky Mountain Clutch Lockring	540	61
Chainring bolts	Race Face 104 BCD Spider Chainring bolts	124 - 150	14 - 17
STEMS		IN-LB	N-M
Faceplate	Rocky Mountain 35 CNC	35 - 53	4 - 6
Stem body to fork steerer	Rocky Mountain 35 CNC	44 -71	5 - 8
Faceplate	Rocky Mountain 35 AM	35 - 53	4 - 6
Stem body to fork steerer	Rocky Mountain 35 AM	44 - 71	5 - 8
Faceplate	Rocky Mountain 31.8 AM	35 - 53	4 - 6
Stem body to fork steerer	Rocky Mountain 31.8 AM	44 -71	5 - 8
SHIFTERS / DERAILLEURS		IN-LB	N-M
Shifters	Bar clamp style	27 - 35	3 -4
Shifters	Shimano I-Spec EV style	27 - 35	3 - 4
Shifters	Sram MMX style	27	3
Derailleurs	Shimano Direct Attach style	71 - 89	8 - 10
Derailleurs	Sram	71 - 89	8 - 10
BRAKES		IN-LB	N-M
Shimano Lever	I-Spec EV Hinge style	35 - 53	4 - 6
Shimano Lever	Bar clamp style	53 - 71	6 - 8
Sram Lever	All styles	35	4
Shimano caliper	All styles	53 - 71	6 - 8
Sram Caliper	All styles	84	9.5
FORK		IN-LB	N-M
Front Axles	Fox Kabolt 2.0	80	9
Front Axles	Rock Shox Maxle Stealth	80 - 120	9 - 13.5
FRAME		IN-LB	N-M
	Refer to frame exploded diagram with torque values	80 - 120	9 - 13.5

IMAGES



IMAGES





Charging port

IMAGES

TMI (Thumb - Machine Interface, aka the remote)



JUMBOTRON

The Jumbotron display is the communication centre of your Powerplay™ bike. It serves to operate the system, display information and diagnose and repair issues. Firmware updates will be carried out through the USB module and computer as required.



DISPLAY





RIDING THE BIKE

Warning

Make sure the brakes are applied before putting any pressure on the pedals, or even resting your foot on the pedals. The Powerplay™ Drive uses a sophisticated torque sensing circuit to deliver smooth, instant, natural feeling power. This circuit is very sensitive, so you must be careful to ensure the bike does not accelerate away from you when stopped.

Power ON

To power up the Powerplay[™] Drive, use the button on the Jumbotron to turn the bikeon, by holding it for 2 seconds. Note: The Powerplay[™] Drive will always power up in the second lowest assistance mode. The rider can then increase the assistance using the remote, or the Jumbotron.

Power levels

The Powerplay[™] Drive provides several levels of power assistance:

Level 1: Eco

This is the lowest power setting, used for maximum battery life and rider input.

Level 2: Trail

This level balances assistance and battery life for all around trail riding.

Level 3: Trail+

This level gives the rider sufficient boost for an exciting ride, and good speed to get you to the downhills, without leaving the battery drained.

Level 4: Ludicrous

For maximum speed and assistance, this level delivers a huge amount of power to the rear wheel. Note that prolonged use of Ludicrous Mode will drain the battery relatively quickly.

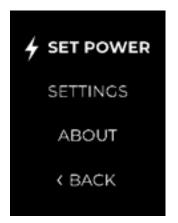
To change assist levels, use the remote (up or down button) or click the button on the Jumbotron.

NOTE: THE RIDER CAN CUSTOMIZE BOTH THE POWER SETTINGS OF ALL 4 MODES, AS WELL AS THE MOTOR BOOST (TORQUE SENSITIVITY) IN THE MAIN MENU. HOLD \P TO ACCESS.

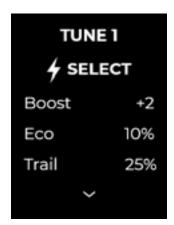
JUMBOTRON

Assist levels can be adjusted at the start or at any time during the ride. The Dyname™ 4.0 system can hold 3 different assistance maps in its memory: a default FACTORY map and two customizable tunes. The rider can select between the maps depending on how they want the drive system to react.

Select Tune







Adjust Tune



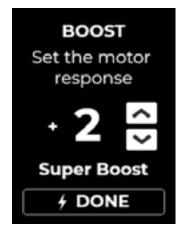


2 adjustable parameters

- •Boost: How the motor responds to rider input (torque sensitivity, or % boost)
- •Assistance power: % of available power for each of the 4 assistance levels

JUMBOTRON

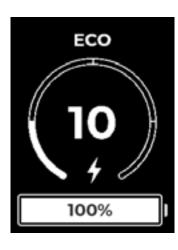
Motor boost



Adjust from +2 to -2

- **+2** Very little effort required from the rider. Maximum boost, minimum battery range: BRAAAAAP
- **0** Balanced performance, good response and battery range
- **-2** Significant pedalling input required from rider, maximized battery range, best workout.

Assistance power



Adjust from 1% to 100%

For each of the 4 assistance modes (Eco, Trail, Trail +, Ludicrous), you can select the power output. It represents a percentage of the peak available power.

You cannot adjust the power of a high assistance mode to be lower than a lower assistance mode, e.g., Trail mode cannot be adjusted lower than Eco mode.

BATTERY

Our Powerplay[™] models feature proprietary controls, motors, and battery components. Some of these components are sensitive and require extra care. We want to ensure that you have the most information possible. Please take note of the following updated details related to the Rocky Mountain Powerplay[™] battery, recharging and care.

Failure to follow the instructions and guidelines in this section may result in damage of electrical components on your bike and will void your warranty. More importantly, failure to follow the instructions may result in serious personal injury or death.

General

- The batteries used in all Rocky Mountain Powerplay[™] devices have all the required certifications and a Battery Management System (BMS) that provides multiple levels of fail-safes to prevent hazards. Despite these safety measures, a charged battery that has reached extreme temperatures or a charging port that has sustained damage can be dangerous, leading to electrical shock, fire, or injury.
- If your battery or charger shows any signs of damage, do not use it, and immediately bring your bike to your authorized Rocky Mountain retailer for inspection.
- The battery and drive unit, along with other proprietary Powerplay[™] components, should only be serviced by mechanics that have gone
 through Rocky Mountain Powerplay[™] training.
- Do not allow any small, sharp, and/or metallic objects to come in contact with the battery or the battery's recharging socket.
- Do not modify, open, or disassemble the battery or charger.
- Never clean an Powerplay[™] with a high-pressure washer or submerge the bike in water. Rain and normal washing will not cause a
 problem.
- Undamaged batteries will not release fluids or gases. However, in the event of damage, battery fluid can cause skin irritation and burns, and battery gases can be released and irritate the airways. In the event of skin or eye contact with any fluids or gases from the battery, immediately flush with water and seek medical assistance.
- When transporting the bike on a car, if the battery is removed, ensure all connections are covered to avoid contamination from road grit, water and salt.
- If a battery fire occurs, do not attempt to directly extinguish it with water. You can use water to extinguish materials surrounding the battery, but not the chemical cells themselves. To properly extinguish a burning battery, use a Class ABC or BC fire extinguisher. Sand can also be used to smother the fire effectively. If possible, without exposing yourself to any personal risk of injury, bring any heated or ignited battery or complete bike outside to prevent the fire from spreading. If the battery is connected to a charger, the first action should be to unplug the charger or cut the power from the grid.

Charging

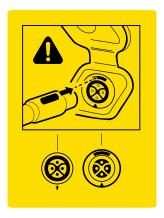
- Only use the dedicated Powerplay[™] chargers for any Powerplay[™] battery.
- Do not leave the charger in direct sunlight, especially during recharging.



BATTERY

To recharge the battery

- 1. Find the recharging port on the Powerplay™ bike and open the recharging port protector.
- Note the shape of the charging cable connector, and orient it correctly to the charge port on the bike.
 Connect the charger to the Powerplay™ bike.
- 3. Plug the charger into an electrical source. The LED on the charger will illuminate red to indicate charging.



4. When the battery is nearing its full charge, it the system will slow the charging rate down to top up and balance the cells. The charger may alternate between "charging (red)" and "full (green)" led, at 30 second intervals, for 30 minutes. If the LED remains green for more than 5 minutes, the battery is fully charged. It is not necessary to disconnect the charger immediately after the recharge is complete; however you should not leave the bike connected to the charger for a period longer than 12 hours.

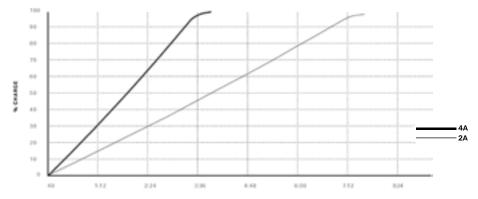
NOTES:

- 1. Do not confuse this end of charge situation with a system fault, which will trigger a rapid blinking of the charger.
- 2. This end of charge state represents the final 3% of battery charging. You can disconnect the charger at any time if you are satisfied with the battery level.
- Recharge your Powerplay $^{\!\top\!\!M}$ bike in an open area with clear access to an outside exit.
- · As with all bikes and equipment with lithium-ion batteries, it is recommended to only recharge the bike under supervision.
- If the battery reaches 50 °C (122 °F), the recharge will be stopped until the battery temperature drop to 45 °C (113 °F). If the battery drop to 0 °C (32 °F), the recharge will be stopped until the battery temperature rises to 3 °C(37.4 °F).
- · Recharging time will vary depending on remaining energy in the battery.

BATTERY

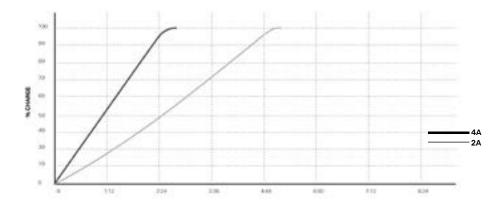
• Recharging time is as follows:

720 Wh	4A charger	2A charger
Time to charge from 0-80%	2h55	6h00
Time to charge from 0-95%	3h25	7h00
Total charge time from 0–100%	3h55	7h35



• Recharging time is as follows:

480 Wh	4A charger	2A charger
Time to charge from 0-80%	1h55	4h00
Time to charge from 0-95%	2h20	4h40
Total charge time from 0-100%	2h35	5h05



• It is not necessary to fully charge the battery every time. You can also partially charge it, but we recommend fully charging it once every 10 charges

BATTERY

Storage

To store your Powerplay[™] bike, keep it in a secure place that is not exposed to extreme temperatures (above 30 °C (86 °F), or below 0 °C (32 °F)), excessive sun exposure, humidity or condensation. If you believe that the bike has been stored in the conditions listed above, please cease usage and contact your authorized Rocky Mountain retailer.

- Storing a fully depleted battery for a prolonged period will cause damage and diminish its capacity. It is recommended to disconnect the battery prior to long term storage that exceeds 2 weeks. It is also recommended to recharge your battery to at least 75% capacity whenever possible to avoid damage from deep discharge over prolonged storage periods that exceed 2 weeks.
- If you store your bike for long periods of time, you must recharge the battery periodically, at least once every three months, to maintain its capacity. Failure to do so may cause damage to the battery, and a loss of its capacity. A good way to manage storage recharging is to set calendar reminders in your computer or mobile device.

The best practice to maintain the optimum battery capacity over time is to store the bike at temperatures between 10 °C (50 °F) and 25 °C (77 °F) and relative humidity below 65%.

Battery functionality

- The battery will function in cold weather, though at a diminished capacity. Expect 70% of full capacity at -10 °C (14 °F). It is recommended to warm up a cold bike prior to use.
- If the battery reaches 65 °C (149 °F), it will shut itself down for protection until it drops below 60 °C (140 °F). If the battery reaches -20 °C (-4 °F), it will shut itself down for protection until it warms up to at least -15 °C (5 °F)
- When the remaining battery capacity is low, the Powerplay™ drive will progressively reduce power output to maximize its range.
- Please note that lithium-ion batteries gradually lose capacity depending on age and use. A dramatic decrease in capacity may be a sign that the battery is reaching the end of its lifespan and must be replaced. Please visit your authorized Rocky Mountain retailer for battery replacement. Under normal use, you can expect:

720 Wh / 480 Wh Battery

Will operate at 80% of full capacity after 500 full charging cycles (0% to 100% charge).

Battery LED

· During charging

White: 100% - 75% Green: 74.9% - 50% Yellow: 49.9% - 25% Red: 24.9% - 0%

Error codes (Flashing LED)

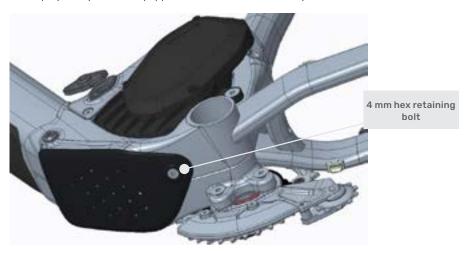
Red: Stop riding/visit your dealer

Yellow: Wait 15 mins.

Blue: Too cold! Try again in warmer conditions.

REMOVAL

Powerplay™ bicycles are equipped with a removable battery. It is fixed with a 4 mm hex retaining bolt, for a solid, rattle-proof attachment.



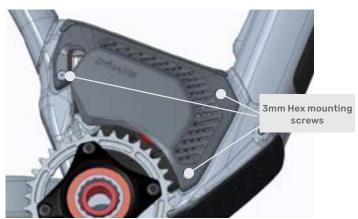
• Remove the bash cover fixing screw and bash plate.

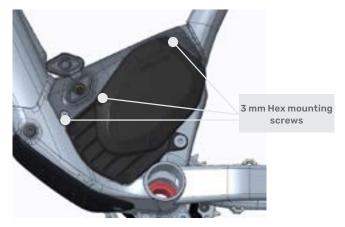
MOTOR

Drive removal

To remove the motor from the frame, follow these steps.

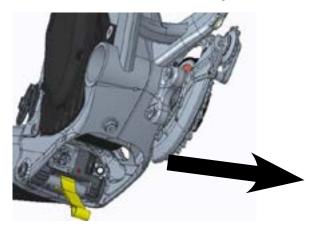
- Turn off bike.
- Unscrew the three mounting screws and remove drive side motor cover



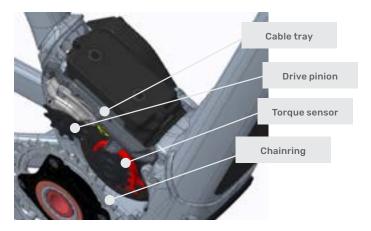


MOTOR

• Remove battery as outlined previously (page 23).

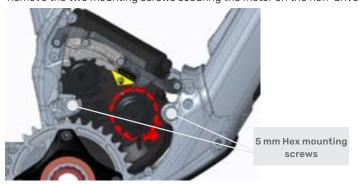


- On the drive side, locate the cable tray. Remove zip ties, and disconnect the speed sensor (YELLOW connector).
- Remove chain from chainring, drive pinion and torque sensor.

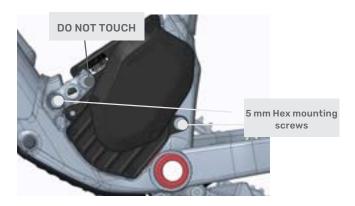


MOTOR

• Remove the two mounting screws securing the motor on the non-drive side

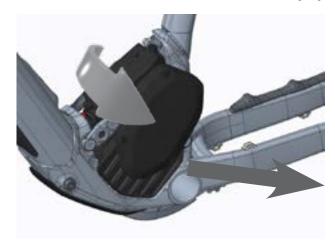


• Remove the two mounting screws securing the motor on the non-drive side. Note the charge port remains on the mounting bracket with the motor. Do not remove this 5 mm hex screw



MOTOR

- Disconnect the remote (RED connector) .
- Remove the entire motor from the non-drive side, rotating slightly to avoid the drive pinion colliding with the frame.



To reinstall the motor, simply reverse all the steps above and refer to the torque specifications below.

• Motor mount screws: 14 Nm

• Cover mount screws: 1.5 Nm

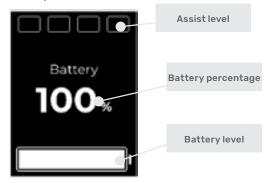
RIDER SCREENS

Depending on the selection, the screen will display one type of information, while still showing critical data.

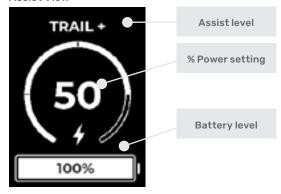
Speed View



Battery View

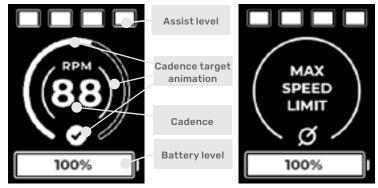


Assist View



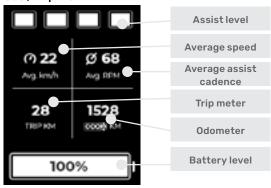
RIDER SCREENS

Cadence View



Note that cadence is interpreted through motor RPM, and is an estimate. That also means that when the motor is stopped (ex: above max speed), there is no cadence reading.

Odo / Trip View



RESET

The rider can always reset the trip information (average speed, average cadence, distance), as well as restore the Dyname system to original factory settings.

Trip reset

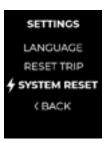


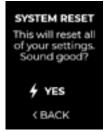
In the odometer view, hold the UP button on the TMI

or









From any rider screen, enter the main menu by HOLDING \P . Go to Settings – System reset.

RESET

Walk Mode

The Powerplay[™] has a Walk Mode you can use should the need arise. The Powerplay[™] Drive is able to assist the bike at a walking speed. On the remote, push and hold button (A). The bike will slowly power up the climb as you push it.

⚠ The Walk Mode may not be used while a rider is on the bike. The Walk Mode may be used only when walking alongside the bike.

Power OFF

To power down the Powerplay™ Drive, hold the button on the Jumbotron. If the bike is left idle for 10 minutes, it will automatically shut itself off to conserve battery life.

NOTES

Damage to remote

In the event the remote is damaged and stops working, the rider can continue to use the bike and cycle through the assist modes using the Jumbotron.

NOTE: The menus and adjustments are not accessible via the Jumbotron, without the remote.

Range

The distance over which the battery will power the drive system varies depending on several factors, such as assist level and boost mode selected, ambient temperature, acceleration, wind resistance, poor maintenance, battery age, hilly and rough terrain, and/or rider weight.

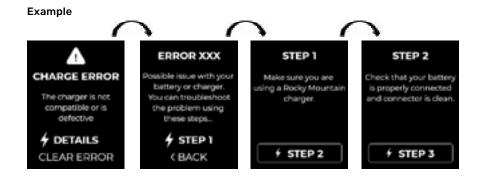
Riding tips

- The Powerplay[™] Drive delivers smooth, natural feeling power to the rear wheel and works best under these circumstances.
- Use a smooth, consistent pedal stroke, rather than "mashing" the pedals.
- Shift often, to maintain a cadence between 80 and 120 RPM for optimal motor efficiency, yielding high torque and maximum battery performance. Use the cadence view on the Jumbotron, which informs the rider when they are pedalling in the efficient zone.
- · When shifting gears, care should be taken:
 - -Ease off pedalling pressure prior to shifting to avoid stressing the chain.
 - -Do not shift multiple gears at once.

SERVICE

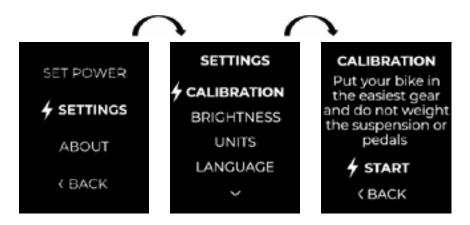
Diagnostics and repair

The Jumbotron can display error messages, as well as prompt the rider with instruction for repairing the system in some cases.



Calibrating

A calibration procedure may occasionally be required to maintain the performance of the drive system. Typically this is done any time a drivetrain component is replaced (chain, chainring, drive pinion, etc) or the motor is reinstalled in the frame.



SERVICE

Troubleshooting

Please work with your local dealer for troubleshooting. Your Jumbotron display can generate error codes for diagnostics. When an error code appears, the system will prompt you with instructions. In some instances a field repair may be possible, in others, the rider may need to see an authorized dealer. Some errors will engage a limp mode, allowing the rider to return home at reduced power.

Warning

WARNING - Do not tamper with your Rocky Mountain bicycle. Tampering is removing or replacing any original equipment or modifying your Rocky Mountain bicycle in any way that may change its design and/or operation. Such changes may seriously impair the handling, stability, and other aspects of the bicycle, making it unsafe to ride. Tampering can void the warranty and render your Rocky Mountain bicycle not in compliance with the applicable laws and regulations where the bicycle is being ridden. To ensure safety, quality, and reliability, use only original parts or Rocky Mountain Bicycles authorized replacements for repair and replacement. Rocky Mountain Bicycles is not responsible for any direct, incidental, or consequential damages, including, without limitation, damages for personal injury, property damage, or economic losses due to tampering.

Attention:

The A-weighted emission sound pressure level at the driver ears is less than 70 dB[A].

Bottom bracket standard

The Powerplay™ Drive uses a Press Fit BB89.5.

NOTE:

- This allows a gap on the Race Face spindle for the Clutch Spider.
- USE THE CORRECT SPIDER FOR EITHER RACE FACE OR SRAM EAGLE CHAINRINGS. THESE ARE THE ONLY APPROVED CHAINRINGS.



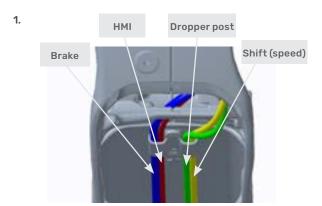
CABLE ROUTING AND REAR BRAKE INSTALLATION

Parts and tools needed:

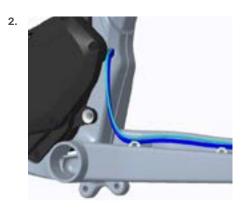
- Rear brake assembly
- Adequate 20mm Post mount if needed
- 5mm Allen Key

Installation

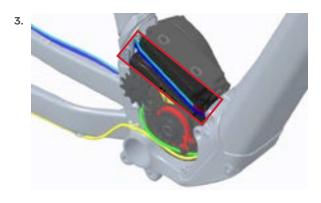
1. Start by feeding the HMI down tube cable (Red cable) through the drive side of the cable collector all the way out of the HMI opening and use masking tape to secure it to the top tube.



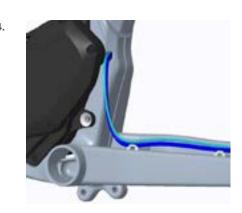
2. Mount the rear brake with adequate post mount on brake adapter.



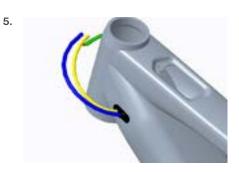
3. Make sure the brake housing (Dark blue cable) goes onto the cable bridge before re-entering the downtube and cable collector.



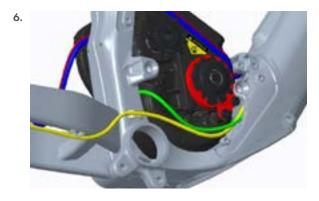
4. Feed the brake housing through the cable collector on the non drive side.



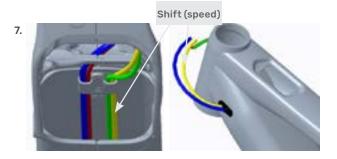
5. Have the brake housing exit at the headtube through the head tube pannel on the non-drive side.



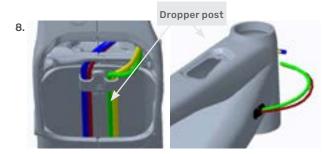
6. Install the shifter housing (Yellow cable) on the chainstay and under the motor before feeding it into the cable collector.



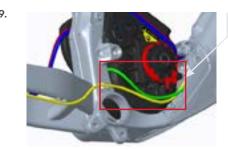
7. Have the shifter housing go through the drive side of the cable collector and exit at the headtube through the headtube non-drive side panel.



8. Feed approx 1800mm of dropper post housing (Green cable) through the cable collector and make it exit the throught the head tube pannel on the drive side.



9. Feed the other end of the housing through the dropper post slot located on the seat tube. Make a big enough loop on the bottom so the motor can be installed easily.



Dropper post big loop

CABLE ROUTING

• Remove cable port (carbon) or rubber grommet (alloy) on the right side of the downtube.



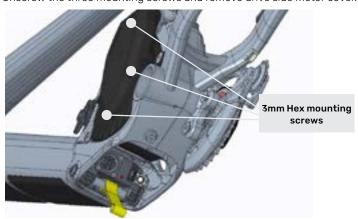
Remove old housing and cable.

- Working from BACK to FRONT, insert shift housing at the rear of the chainstay assembly.
- Run the shift housing in the cable tray, and into the downtube.
- Run the shift housing all the way to the front of the bike and out the port.
- Run the shift housing in the cable collector, pull taut, and fix the cable collector in the downtube with the 3 mm hex screw.
- Fasten cables and wires to the cable tray on the drive side of the motor with zip ties.
- Install the main pivot cable guide.
- · Trim and adjust shift cable and housing.
- · Reinstall port or rubber grommet over the shift housing.
- · Reinstall battery.

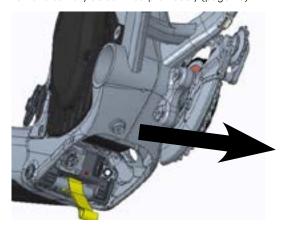
CABLE ROUTING

To replace a rear brake hose, follow these steps:

• Unscrew the three mounting screws and remove drive side motor cover.



• Remove battery as outlined previously (page 23).



CABLE ROUTING

• Cut and remove the zip ties fixing cables and wires to the cable tray on the drive side of the motor. NOTE POSITION OF HOSE ON TRAY.



• Loosen the 3 mm hex screw between the water bottle bolts, which in turn loosens the cable collector found INSIDE the downtube. You can slide the cables off the sides of the collector, inside the downtube.

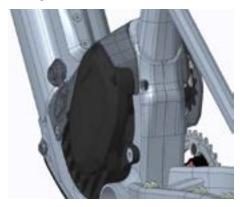


CABLE ROUTING

• Remove cable port (carbon) or rubber grommet (alloy) on the left side of the downtube.



- Remove old hose. Measure new hose to match length.
- Working back to front, install the hose on the caliper, and run along the chainstay to the lower hole at the back of the seat tube.



- Run the brake hose in the top portion of the cable tray and into the downtube.
- Run the brake hose in the cable collector, pull taut, and fix the cable collector in the downtube with the 3 mm hex screw.
- Fasten the hose, cables and wires to the cable tray on the drive side of the motor with zip ties.
- · Pull the brake hose out of the left side port hole by the head tube, and reinstall the cover or grommet.
- Reinstall the drive side motor cover.
- · Reinstall battery.

BRAKES

It's very important to your safety that you learn and remember which brake lever controls which brake on your bike. Traditionally, the right brake lever controls the rear brake and the left brake lever controls the front brake; but, to make sure your bike's brakes are set up this way, squeeze one brake lever and look to see which brake, front or rear, engages. Now do the same with the other brake lever. Make sure that your hands can reach and squeeze the brake levers comfortably. If your hands are too small to operate the levers comfortably, consult your dealer before riding the bike. The lever reach may be adjustable; or you may need a different brake lever design.

Disc brakes can get extremely hot with extended use. Be careful not to touch a disc brake until it has had plenty of time to cool.

See the brake manufacturer's instructions for operation and care of your brakes, and for when brake pads and rotors must be replaced. If you do not have the manufacturer's instructions, see your dealer or contact the brake manufacturer. If replacing worn or damaged parts, use only manufacturer approved genuine replacement parts.



GENERAL MAINTENANCE

Please note that electric assist bikes put more stress and strain on components than traditional mountain bikes. They should therefore be inspected and maintained more frequently to maximize safety, performance and longevity.

Seasonal charging

If you store your bicycle for long periods of time, be sure to charge the battery at least once every three months. Failure to do so may cause damage to the battery, and a loss of capacity. After one month of storage, the battery will enter a protection mode. To revive the battery, plug it into the charger.

A good way to manage storage charging is to set calendar reminders in on your computer or mobile device.

Cleaning

A clean bike is a happy bike. The best way to clean a dirty bike is with a bucket of warm, soapy water. Avoid using a pressure washer.

NOTE: Do not spray water at directly on any electrical component.

Preventative maintenance

Clean and inspect drivetrain for wear

- Chain
- Cassette
- Pulleys (lower idler, derailleur pulleys)
- Chainring
- Drive pinion

Check bolts and fasteners

- · All standard bicycle fasteners: pivots, stem, crank bolts, chainring bolts
- · Motor mounts
- · Torque sensor mount
- · Battery retaining pin
- · Check spoke tension
- Inspect brake pads & rotors
- Keep charge port clean / closed

GENERAL MAINTENANCE

Periodic maintenance and	Checklist					
adjustment checklist	500KM	1000KM	1500KM	2000KM	2500KM	Notes
Bicycle chain - inspect for wear, clean and lube	Before each ride			ride		Check condition (stretch, cracks) and lubricate with the chain supplier's recommended lubricant.
Charge port	Before each charge			harge		Check for water intrusion, corrosion, pin alignment & dirt
Torque sensor - calibration	Bi-monthly			ly		OR each time you replace a component of the drive system or drivetrain
Motor mount screws	•	•	•	•	•	Check for proper torque
Drive pinion & lockring	•	•	•	•	•	Check condition; replace whenever worn to the limit
Torque sensor & idler pulley	•	•	•	•	•	Check for cracks or damage
Motor casing & covers		•		•		Check for cracks or damage
Motor cables		•		•		Check for insulation or connector damage
Battery casing	Inspect each time battery is out of the bike			is out of t	he bike	Check for casing or connector damage
Handlebar remote & cable	•	•	•	•	•	Check for casing or connector damage
Toptube display & cable	•	•	•	•	•	Check for excessive play & screen damage
Downtube extension cable	•	•	•	•	•	Check for casing or connector damage
Speed sensor & cable	Inspect each time wheel is off the bike			el is off the	bike	Check for casing or connector damage; ensure magnets are well secured
Transfer chain - clean and lube		•		•		Check condition and lubricate with the same oil used on the drivetrain chain
Transfer chain - replace	Replace every 2500KM			2500KM		Check condition to avoid internal motor wear and noise
Motor clutch bearing - replace	Replace every 2500KM			2500KM		Check bearing for smooth operation
Spider clutch bearing - replace	Replace every 2500KM			Check bearing for smooth operation		

GENERAL MAINTENANCE

REPLACEMENT PARTS AND ACCESSORIES

Rocky Mountain replacement parts and accessories should be obtained through your local authorized Rocky Mountain Dealer. We highly recommend that you carry a spare inner tube and the required tools to undertake a tube replacement when you ride your bike.

TRANSPORTATION

Rocky Mountain replacement parts and accessories should be obtained through your local authorized Rocky Mountain Dealer. We highly recommend that you carry a spare inner tube and the required tools to undertake a tube replacement when you ride your bike.

REGISTER

Registering your bike is the official way for us to welcome you into the Rocky Mountain family. It's also an important step in activating your bike's warranty. If you ever have an issue, we'll be able to handle your case efficiently and get you back riding as soon as possible. It's easy and only takes a few minutes.

Register your bike: bikes.com/register

WARRANTY INFORMATION

Your bicycle is warrantied against defects in materials and manufacturing as per the following table:

CATEGORY	TERM	NOTES
Frame members	5 years	Front triangle + rear triangle
Hardware	1 year	Pivots, axles, etc.
Electronics	3 year	Drive, Remote, Jumbotron, Sensors, Charger
Drive Wear Items	1 years	Pulleys, Pinions, Transfer Chain and Bearings
		The Powerplay™ Drive will progressively reduce power output to maximize range, as the battery depletes.
Battery	24 month	Range varies depending on several factors, such as assist level, ambient temperature, acceleration, wind resistance, poor maintenance, battery age, hilly and rough terrain and/or rider weight.
		If stored for 3+ months, charge battery every 3 months. Failure to do so may cause damage & void warranty.
Components	As per original manufacturer w	varranty

All warranty and after sale service must be handled by the authorized dealer who sold the complete bicycle or frame. We cover your Rocky Mountain frame against defects in material and workmanship from the original date of purchase of your new Rocky Mountain bicycle according to the frame material and the type of use.

Frame material / Type of use

- Carbon fiber: 5 years Limited*
- Aluminum front & fully suspended: 5 years Limited*
- · Please refer to limitations stated below

WARRANTY INFORMATION

Other warranty coverage against defects in workmanship and materials

- · Coating paint and decals: 1 year
- Frame hardware, suspension, pivots and bushings: 1 year
- · Pivots and bushings: 6 months

NOTE

Warranty is not valid in the following situations:

- · Bicycles previously used for commercial activity such as rental, courier, police, security, etc.
- · Installation of components, parts or accessories not originally intended for or compatible with the bicycle (or frame) as sold.
- · Rocky Mountain Bicycle purchased from an unauthorized dealer.
- · Purchasing a Rocky Mountain Bicycle or frame off from third party internet sites (such as eBay) no matter what the listing says.

Detail of what is not covered under warranty:

- A. Normal wear and tear on tires, tubes, brakes, gear cables, brake pads, etc. is not covered. Your authorized Rocky Mountain dealer will inform you of what falls under normal maintenance.
- B. Consequential damage or any damage caused by accident, misuse or abuse.
- C. Improper assembly and/or lack of proper maintenance, sandblasting, sanding, grinding, wire brushing, filing, welding, brazing, drilled holes, anodizing, repainting, or chrome plating is not covered under your warranty and may void the warranty of the component manufacturers.
- D. You take great personal risk and shall forfeit the warranty, as outlined in the Warranty Table, when you ride in extreme terrain as depicted in mountain bike videos, i.e., riding «trials»-style courses, riding ramps, doing stunts, riding on BMX tracks, riding in the city down steps and embankments, riding in other similar terrains. It is important to note that bent components, frames, forks, handlebars, seat posts, pedals, cranks and wheel rims are signs of accidents and/or abuse.
- E. Labour for part replacement or changeover is not included.
- F. Rocky Mountain retains the right to repair or replace at its discretion any part that is deemed a valid warranty claim. Please note that Rocky Mountain cannot guarantee a colour match to the original component.

EXCLUSION AND LIMITATION OF DAMAGES

THE WARRANTY OF ROCKY MOUNTAIN IS LIMITED TO THE REPAIR OR REPLACEMENT OF THE PRODUCTS AND DOES NOT GRANT ANY WARRANTY EITHER EXPRESSED OR IMPLIED, LEGAL OR CONVENTIONAL AND DISCLAIMS ANY AND ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSESAND ROCKY MOUNTAIN SHALL UNDER NO CIRCUMSTANCES BE LIABLE FOR DIRECT OR INDIRECT, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES EVEN WHERE ROCKY MOUNTAIN HAS BEEN ADVISED OF SUCH DAMAGES, AND ROCKY MOUNTAIN'S LIABILITY SHALL BE LIMITED TO \$50.00.

DECLARATION OF CONFORMITY

The following Powerplay[™] equipped bicycle platforms fulfill the requirements of the standards listed below. Rocky Mountain FusionPowerplay[™]

For a complete list of models go to www.bikes.com.

- EN 15194:2017: Electrically power assisted cycles EPAC Bicycles
- ISO 4210-2:2015: Safety requirements and testing procedures for mountain bicycles
- IEC/EN 62133-2:2017 : Requirements and tests for the safe operation of portable sealed secondary lithium cells and batteries. Part 2: Lithium systems

Manufacturer

Rocky Mountain division of Industries RAD inc. 9095, 25th Avenue St-Georges, QC Canada, G6A 1A1

2023/1/30



Development Center Centre de développement Entwicklungszentrum Centro di Sviluppo

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