

## **Cannondale Supplements**

This manual is a "supplement" to your Cannondale Bicycle Owner's Manual. This supplement provides additional and important model specific safety, maintenance, and technical information. It may be one of several important manuals/supplements for your bike; obtain and read all of them.

Please contact your Cannondale Dealer immediately if you need a manual or supplement, or have a question about your bike. You may also contact us using the appropriate country/region/location information. See Contacting Cannondale in this supplement.

You can download Adobe Acrobat PDF versions of any manual/supplement from our website: www.cannondale.com

This supplement contains information for the following models:

MODEL CODE	DESCRIPTION
C65277M	27.5+ M MOTERRA 2 US
C65107M	27.5 M MOTERRA LT 1
C65157M	27.5+ M MOTERRA 1
C65207M	27.5 M MOTERRA LT 2
C65257M	27.5+ M MOTERRA 2
C65357M	27.5+ M MOTERRA 3

### Your Cannondale Dealer

To make sure your bike is serviced and maintained correctly, and that you protect applicable warranties, please coordinate all service and maintenance through your Authorized Cannondale Dealer.

#### NOTICE

Unauthorized service, maintenance, or repair parts can result in serious damage and void your warranty.

## **CANNONDALE EUROPE**

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## eBike Drive System

The manufacturer's owner's manuals and instructions for the operation and maintenance of the drive-assist system are available as electronic downloads (in Adobe Acrobat PDF format) from our website.

Obtain and read these materials BEFORE you operate the bike.

Drive System Manufacturer:

BOSCH Performance Line CX

Drive System Owner's Manual:

http://www.bosch-ebike.de

This bike complies with EN 15194, EN ISO 4210 - Electrically Power Assisted Cycles (EPAC).





e1 \*2002/24\*XXXX

\* XRD11132XBF100001 \*

--- db(A) - ---min-1

### Vehicle Category: A Make: Cannondale







### **GENERAL EBIKE SAFETY INFORMATION**

### Intended Use

This model is equipped with an electric pedal assist drive system. It is not a moped or motorcycle. In EU countries, it is known legally as an "EPAC" cycle or Electrically Powered Assisted Cycle.

The drive assist system consists of a drive unit, a battery, a computer control, and various electronic components (harness wires, sensors, and switches). This model bike does share components common with pedal-only bikes.

It is important to know that when the assist system is turned ON, the drive unit engages to provide power only while you are pedaling. The amount of power provided by the drive unit depends on your pedaling force and the assistance mode/level you set with the handlebar control unit. At anytime, if you stop pedaling, the drive assist will dis-engage. In all modes/levels, the drive assist system power reduces progressively and cuts off as the bike reaches a the maximum allowable speed. The drive-assist re-engages when speed drops below the maximum allowable speed as long as the pedals are turning.

Whenever the drive assist system is turned OFF, You can pedal the bike normally. The drive system will not engage.



#### WARNING

UNDERSTAND YOUR BIKE, DRIVE SYSTEM AND THE INTENDED USE OF BOTH. LISING YOUR BIKE THE WRONG WAY IS DANGEROUS.

Please read your Cannondale Bicycle Owner's Manual for more information about Intended Use and Conditions 1-5

INTENDED USE: ASTM CONDITION 4, All Mountain.

NOT INTENDED: For Hardcore Freeriding, Extreme Downhill, Dirt Jumping, Slopestyle, or very aggressive or extreme riding.

DRIVE SYSTEM: You must follow the manufacturer's instruction for intended use or limitation

## Compliance/Regulation



#### WARNING

MAXIMUM ALLOWABLE ASSIST SPEED: The drive assist system is limited to a maximum continuous power rating of 0,25 kW (250 W) and a maximum speed of 25 Km/h.

YOU MUST FOLLOW ALL LOCAL LAWS:

It is your responsibility to identify and follow all local laws and regulations (including fitting your bike with additional equipment) necessary to comply with your state and local laws.

Ask your local Cannondale Dealer for more information about operating an electrically assisted pedal bicycle in your area.

## **Drive System**



### WARNING

MANUFACTURER'S INSTRUCTIONS - In addition to this supplement, you must read and follow the manufacturer's instructions for all components of the drive assist system:

Drive Unit Battery

Display/Control Unit Charger

These instructions contain correct operation, service and maintenance information. Drive system instructions can be also be found at www. cannondale.com.

## Operation



### WARNING

IMPORTANCE OF PRACTICE & RIDER TRAINING - Before you ride this bike, practice riding in a safe area free from hazards. Take time to learn to bike's controls and performance. Practice the controls and gain the experience necessary to avoid the many hazards you will encounter while riding.

DO NOT RIDE "HANDS-OFF - Keep you hands on the handlebars when riding the bike. If you remove your hands from the handlebar while riding, you can lose control of the bicycle and crash.

CHANGING THE ASSISTANCE LEVEL WHILE RIDING - Changing the drive assistance level while riding will increase or decrease the acceleration of the bike. You should anticipate this change in speed and react appropriately depending on the riding conditions. (such as on slippery trails, tight turns, or unstable or uneven surfaces). Set assistance level to "ECO" (lowest asist) or "OFF" before descending technical trails, (e.g. tight downhill switchbacks)."

WHEN NOT RIDING - TURN THE DRIVE SYSTEM OFF and REMOVE THE BATTERY , KEY, AND CONTROL UNIT AND STORE ALL IN A SECURE AREA TO PREVENT UNAUTHORIZED USE. Remove the battery and key when the bike is parked for long periods.

DO NOT ALLOW CHILDREN TO OPERATE EBIKE. Follow any state or local laws for any minimum age restrictions for eBikes.

ONLY TURN THE DRIVE SYSTEM ON WHEN YOU ARE SEATED WITH YOUR HANDS ON THE HAND! FBAR READY TO RIDE.

EBIKES ARE HEAVIER THAN ORDINARY MOUNTAIN BIKES. This bike has wide bars, and with wide tires without a integrated kickstand to hold it parked upright. Always park the bike in a suitable safe area away from children, cars or animals that may come into contact with it

WEAR A HELMET AND ALL OTHER PROTECTIVE GEAR (GLOVES, PADS, AND CYCLING SHOES).

### Modification



#### WARNING

DO NOT MODIFY THIS BICYCLE/DRIVE SYSTEM/ IN ANY WAY FOR ANY REASON. Doing so can result in severe damage, faulty or dangerous operating conditions, or violation of local laws.

Dealers and owners MUST NOT change, alter, or modify in any way the original components of the bicycle or drive assist system and the specified sizing of the attached gear ratios (front/rear chain rings) Specifically attempts to "hot-rod" or "improve" the speed of the bike are dangerous to the rider. Use only specified CANNONDALE and manufacturer drive assist service and replacement parts.

## **Battery Strap**



### WARNING

# DO NOT RIDE WITH A MISSING OR DAMAGED BATTERY STRAP.

The battery strap is an additional and required retention device. It must be used with the battery

key locking mechanism while riding. If the battery strap is missing , secured incorrectly, or damaged; the battery could become damaged resulting in an accident.

- Follow the instructions in this supplement for installing the battery and securing the battery stran.
- Replace the battery strap with a new one if it is damaged in any way. See REPLACEMENT PARTS.

## No Child Seats or Trailers



### MARNING

Child seats and trailers or racks can not be used and are not allowed to be used with your Cannondale e-bike.

YOU CAN BE YOU SERIOUSLY INJURED, PARALYZED OR KILLED IF YOU IGNORE WARNINGS.



## **IDENTIFICATION**

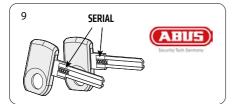


- 1. Drive Unit
- 2. Battery
- 3. Drive Control Unit
- 4. Speed Sensor (left side)
- Rear Cassette
- 6. Front Chain Ring

- 7. Battery Strap
- Bike Serial Number/ID
- 9. Key (on left side)



Remove the battery to locate the Bike Serial Number (8).



Your E-Series bike comes with a main key and spare key. The keys are identified by the serial number **SERIAL**. Please record the key serial number for future use and key replacement. If your keys are ever lost or stolen, or you would like additional spares, please contact: www.abus.com

### **NOTICE**

Don't ride with key in battery lock. Always remove the key from the lock after using it. Keys may be stolen or break off accidentally in the lock. Keep your spare key in a safe place.

**Please Note:** After lots of rides and washing, the battery lock can become dry and difficult to use. To maintain, whenever you lubricate your bike chain, place a few drops of chain oil on the key insert the key and operate the lock, then remove and wipe the key clean.

### Record key SERIAL here:

## **TECHNICAL INFORMATION**

# **Frame Specification**

	MOTERRA	MOTERRA LT	
HEAD TUBE	Cannondale SI		
BOTTOM BRACKET	BOSCH	BOSCH	
FRONT DERAILLEUR	N/A		
SEAT POST DIA./BINDER	31.6 / 35 mm	31.6 / 35 mm	
MINIMUM SEAT POST INSERT	100 mm	100 mm	
▲ TIRE (SIZE/MAXIMUM WIDTH	27.5 x 2.8	27.5 x 2.4	
▲ MAXIMUM FORK LENGTH	541mm	556mm	
▲ INTENDED USE	ASTM CONDITION 4, All Mount	ASTM CONDITION 4, All Mountain	
REAR TRAVEL	130mm	160mm	
RECOMMENDED SAG	30%	30%	
EYE-TO-EYE:	200 x 51 mm	216 x 63 mm	
REAR BRAKE	Post Mount/ Adapter 180/18	Post Mount / Adapter 180/185/203 mm	
ISCG	Cannondale Chain Guide item	Cannondale Chain Guide item "E"	
REAR DROPOUT 157 x 12 mm		-	
Maximum Weight Limit (Lbs/Kg)	330 lbs/150kg	·	

To calculate maximum load of your e-bike, please deduct bike weight from total Maximum Bike Weight Limit (330 lbs/150kg). To find the bike weight, please see CE Sticker on you bike or contact your local Cannondale Dealer.

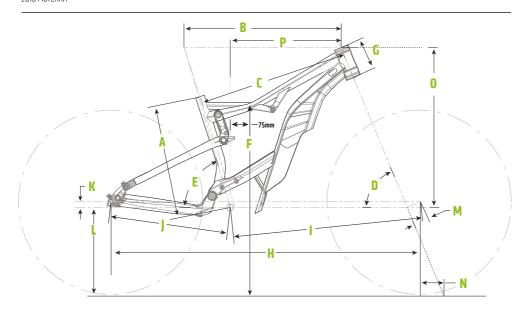


Please read your Cannondale Bicycle Owner's Manual for more information on specification marked with the safety alert symbol "A"

# **Drive System Specification**

	MOTERRA	MOTERRA LT
DRIVE UNIT	BOSCH Performance Line CX 250W 0 275 007	045
BATTERY	BOSCH PowerPack 500Wh 0 275 007 533/53	4
DISPLAY	BOSCH Intuvia 1 270 020 906/909	BOSCH Purion 1 270 020 916/917
CHARGER	BOSCH 4A 0 275 007 906   0 275 007 915	
REAR CASSETTE	11-42T	
FRONT CHAIN RING	Cannondale p/n : CK2047U000S	
CRANK ARMS	FSA-CK745/IS, 170mm	
MAXIMUM SUPPORT up to:	25 km/h , 15.5 mph	
ASSIST SUPPORT LEVELS	OFF, ECO, TOUR, SPORT, TURBO	



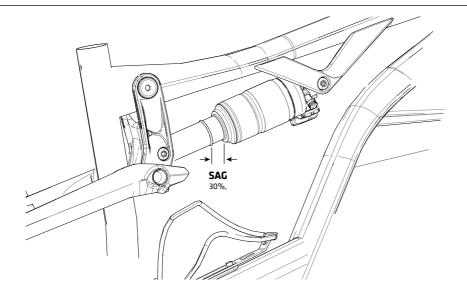


# **Frame Geometry**

			МОТ	ERRA			MOTE	RRA LT	
	SIZE (cm)	S	М	L	XL	S	М	L	XL
А	SEAT TUBE LENGTH	40	44	48	52	40	44	48	52
В	TOP TUBE HORIZONTAL	57.4	60.1	63.1	65.8	55.6	58.6	61.6	64.3
С	TOP TUBE ACTUAL	N/A	*	*	*	*	*	*	*
D	HEAD TUBE ANGLE	67°	67.5°	*	*	66°	*	*	*
Е	SEAT TUBE ANGLE EFFECTIVE	75°	74°	*	*	74.8°	*	*	*
F	STAND OVER	75	76	76	77	77	78	78	79
G	HEAD TUBE LENGTH	109.7	122.4	134.4	134.4	109.7	122.4	134.4	134.4
Н	WHEELBASE	117.2	118.3	121.4	124.1	115.7	118.9	122.1	124.8
I	FRONT CENTER	71.5	72.7	75.8	78.5	71.4	74.6	77.8	80.5
J	CHAIN STAY LENGTH	45.7	*	*	*	44.3	*	*	*
K	BOTTOM BRACKET DROP	19.0	*	*	*	-3.0	*	*	*
L	BOTTOM BRACKET HEIGHT	34.7	*	*	*	35.7	*	*	*
М	FORK RAKE	51.0	*	*	*	50.0	*	*	*
N	TRAIL	10.0	9.6	*	*	10.3	*	*	*
0	STACK	59.8	61.2	62.3	62.3	58.8	60.0	61.1	61.1
Р	REACH	41.4	42.5	45.2	47.9	39.6	42.3	45.0	47.7

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All Specifications subject to change without notice.  $\bigstar$  - Indicates same.



## **Rear Shock**

### Set Up

- Set the air pressure according to for you body weight. Follow the shock manufacturer's instruction for pressurizing the shock.
- 2. Slide the O-ring against the shock wiper seal.
- Sit on the bike in a normal riding position with your hands on the handlebar and feet on the pedals so that your weight compresses the rear shock.
- Measure the SAG. Adjust the air pressure in the shock to achieve the correct SAG measurement.

Add air to decrease sag.

Release air to increase sag.

Recommended Sag 30%



SELECT ONLY COMPATIBLE SHOCKS AND FORKS FOR YOUR BIKE. DO NOT MODIFY YOUR BIKE IN ANY WAY TO MOUNT ONE. HAVE YOUR SHOCK OR FORK INSTALLED BY A PROFESSIONAL BIKE MECHANIC

- Riding with the wrong rear shock can damage the frame. You could have a serious accident.
   Make sure the total travel, eye-to-eye length, and stroke length of the rear shock you select meet the SPECIFICATIONS listed in this manual.
- When selecting different shocks or forks for your bike, make sure that the shock or fork you select is compatible with your bike's design and how you will use your bike.

YOU CAN BE YOU SERIOUSLY INJURED, PARALYZED OR KILLED IF YOU IGNORE THESE WARNINGS.

### NOTICE

Mount the shock as shown.



### **Shock Link**

Top Tube Pivot
 Pivot Nut

Shock Bolt

- 3. Bearing
- 4. Spacer
- Link
   Shock Bolt
- Seat Stay Axle
   Shim
- 9. Sillill 10. Pinch Bolts
- a. gap (seat stay)
- b. slot (shim)

### Service Tool - KP169/

Service Tool Cannondale **KP169/** is a multi-function tool set used to remove and install the axle (8) and shim (9).

The kit also includes bearing driver needed to replace the link and swingarm bearings. It is available from a Cannondale Dealer.

## **Composite Link Bearing, Install**

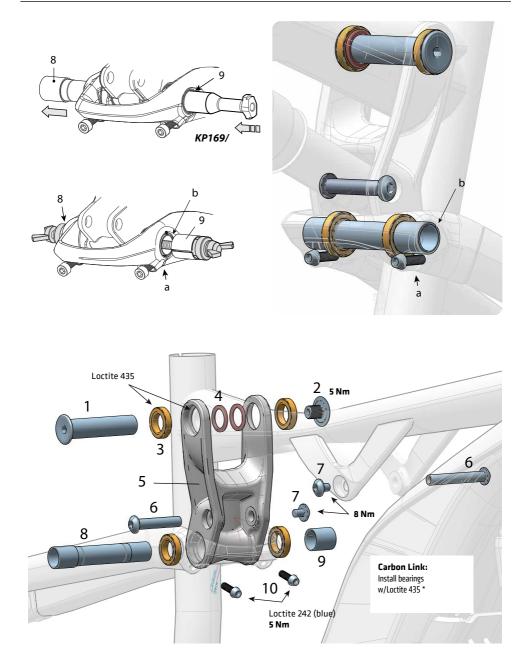
- Clean outer race of all bearings and link bearing bores with denatured alcohol and clean cloth to remove any oil or contamination.
- Apply a thin bead of Loctite 435 adhesive \* around inside of a bearings bore near the outer edge of the bore.
- 4. Insert a bearing into the bore with adhesive and ensure it is fully seated on the lip (a) in the bore.
- 5. Ensure bearing is fully seated in bore.
- 6. Repeat steps 3-5 for the remaining 3 bearings.
- 7. Confirm that all 4 bearings are fully seated in each bore.
- After 45 seconds the adhesive will cure enough for handling.
- 9. Wait a 5 minutes before installing link in frame.

### Shock Link, Remove

- Place the bike in a work stand. Make sure the wheel / swing arm is supported.
- Remove the rear shock bolts and disconnect the shock from the link.
- Remove the pinch bolts (10) and clean old thread locking agent from the threads.
- Insert the driver tool KP169/ (as shown) into of the seat stay axle (8).
- Drive out the axle by tapping on the tool with a small rubber mallet.
- Loosen and remove the pivot nut (2) and remove the top tube pivot (1).
- 7. Remove the link and the spacers (4).

### Shock Link, Install

- 1. Clean all parts with a dry lint-free shop towel.
- Locate the spacers with the small ends into the link bearings.
- 3. Align and insert the top tube pivot . Tighten the pivot nut to the specified torque.
- Align and insert the seat stay pivot with the larger end on the drive side. Insert the shim (9) over the axle end and position the slot (b) opposite the clamp gap (a).
- Re-apply Loctite 242 (blue) to the pinch bolt threads and tighten to specified torque.

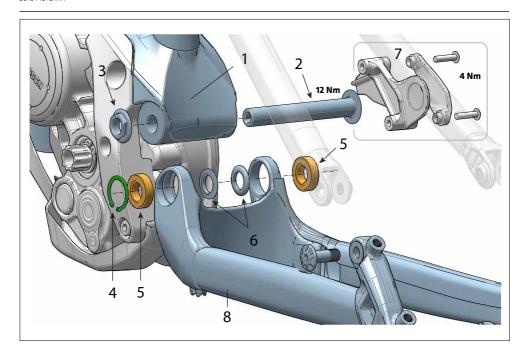


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\* http://tds.henkel.com/tds5/search.asp?t=435

# cannondale

2018 MOTERRA



## **Main Pivot**

- 1. Frame Pivot
- 2. Main Pivot Axle
- 3. Main Pivot Nut
- Ring Clip
   Bearing
- Spacer
- Chain Guide Assy.
- B. Swing Arm

The main pivot assembly connects the swingarm to the frame. Its should be inspected periodically by a Cannondale Dealer to make sure all the parts are good condition.

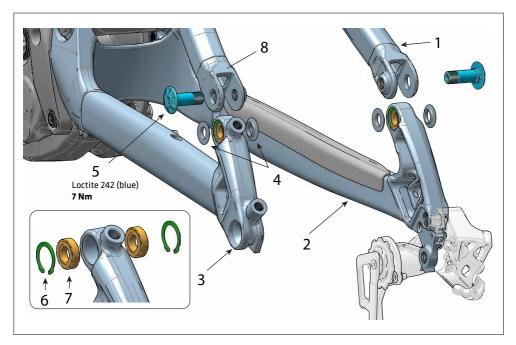
Service of worn or damaged parts in this assembly should be performed by a Cannondale Dealer.

As shown, a significant degree of disassembly is required.

The main pivot bearings (5) should be renewed periodically to ensure best performance, or if they become damaged during use. An indication of damage would be excessive play or loose feel of the swing arm connection.

Use Cannondale tool **KP169/** bearing drivers to install and remove the bearings.

The non-drive side bearing (5) is retained by a ring clip (4).



## **Dropout**

- 1. Seat Stay
- 2. Swing Arm
- Dropout (left)
- 4. Spacer
- Pivot Axle
- 6. Ring Clip
- 7. Bearing
- 8. Seat stay end

The dropout bearings (7) should be renewed periodically to ensure best performance, or if they become damaged during use. An indication of damage would be excessive play or loose feel of the seat stay dropout connection.

The bearings (see inset) can be inspected without removing them. With the pivots removed, rotate the installed bearings. The bearings should be free of corrosion, fixed firmly in the dropout and rotate smoothly without a gritty or loose feel.

It is best practice to renew all the parts ring clips (6), bearings (7), pivots (5) and spacers (4) with new ones when service is required. The bearing pairs in each dropout are retained by two ring clips which are seated in a groove.

The small end of the spacers (4) fit into the bearings before connection of the seat stay ends (8).

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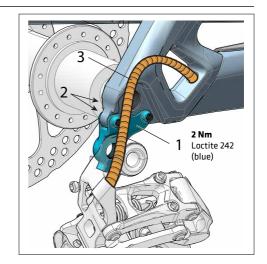


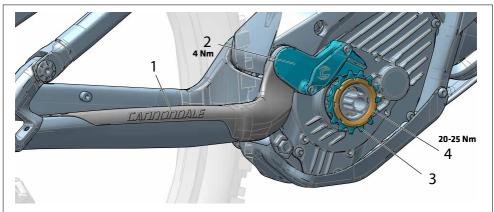
## **Rear Derailleur Hanger**

- 1. RD Hanger
- Housing Guide
- 2. Screws

Anytime the RD Hanger is replaced due to damage or a crash, clean the dropout and also check for any damage.

The flexible housing guide (3) is an added part enclosing the internally routed RD housing/cable. It spans the housing section between the chain stay opening the connection to the rear derailleur. The guide is necessary to best shifting performance. Be sure to replace it if it is removed when servicing the rear derailleur.





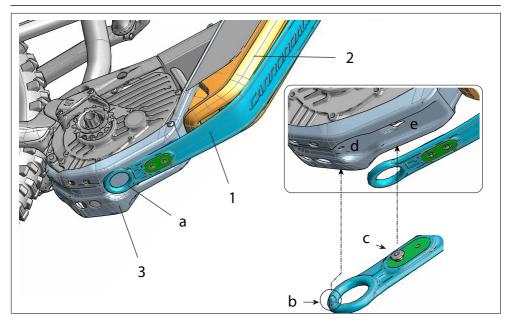
## Chain Stay Protector / Chain Guide / Front Chain Ring

The following items should be inspected often to make sure they are securely mounted and in good condition and if damaged, have them replaced by your Cannondale Dealer:

- 1. Chain Stay Protector Prevents chain movement from damaging the chain stay.
- 2. Chain Guide Retains the chain.
- 3. Front Chain Ring
- 4. Chain Ring Nut



DO NOT RIDE WITH A MISSING OR DAMAGED CHAIN GUIDE.



## **Battery Strap**

- Battery Strap
- Battery
- 3. Plate
- a. Loop
- b. Button
- c. Hook
- d. Hole
- e. Slot

Make sure the battery (2) is locked securely into the frame mounts before installing the strap.

Follow the BOSCH battery installation instructions when installing and reinstalling the battery (2).



DO NOT RIDE WITH A MISSING OR DAMAGED BATTERY STRAP.

The battery strap must be released before the battery can be released from the frame mounts with the key (not shown).

The battery strap must be secured at all times when riding. If it becomes loose or damaged, it must be replaced with a new one. Have this performed by your Cannondale Dealer.

#### To release the strap:

Pull the strap loop (a) back and down to disengage the hook (c) from the slot (e) in the plate (3).

#### To secure the strap:

Insert the charged battery (1) into the frame mounts and lock the battery in place with the key.

#### Remove the key.

Pull the strap loop (a) backward and engage the hook (e) with the slot in the plate (e) and release the strap tension. Make sure it is engaged forward. Press the button (b) into the plate (3).

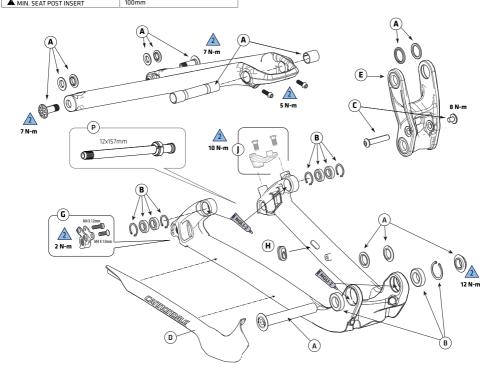


## **REPLACEMENT PARTS**

	MOTERRA	MOTERRA LT
HEAD TUBE	Cannondale SI	•
BOTTOM BRACKET	BOSCH	
REAR TRAVEL	130 mm	160 mm
SAG 30%	36 mm	
EYE-TO-EYE/STROKE:	200 x 51 mm	216 x 63 mm
REAR BRAKE	Post Mount/ Adap	oter 180/185/203mm
ISCG	Cannondale Chain	Guide item "E"
REAR DROPOUT	157 x 12 mm	
FRONT DERAILLEUR	S3 Direct Mount	
SEAT POST DIA./BINDER	31.6 / 34.9mm	
▲ MINI SEAT DOST INSERT	100mm	

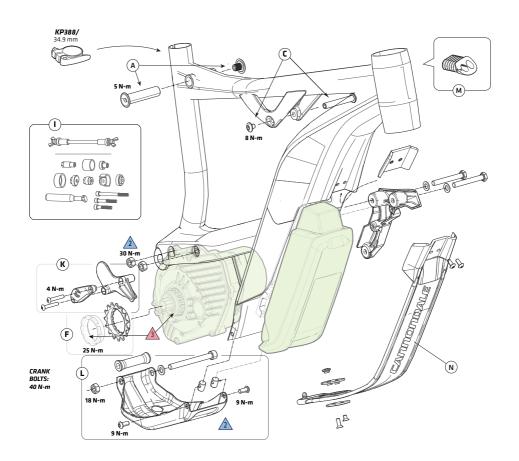
	MOTERRA	MOTERRA LT
▲ TIRE (SIZE/MAXIMUM WIDTH*)	27.5 x 2.8	27.5 x 2.4
▲ MAX. FORK LENGTH	541mm	556mm
▲ MAX. WEIGHT LIMIT (Lbs/Kg)	330 lbs/150kg	
▲ INTENDED USE	ASTM CONDITION 4	, All Mountain

To calculate maximum load of your e-bike, please deduct bike weight from total Maximum Bike Weight (330 lbs/150kg). To find the bike weight, please see CE Sticker on you bike or contact your local Cannondale Dealer.



ID	Part Number	Description
Α	CK3067U100S	Moterra Link Hardware BLK
С	CK3057M000S	Moterra Shock Mount Hardware
D	CK3037U100S	Moterra Chainstay Protector BLK
Е	CK3297U000S	Moterra Crb Link, w/brgs
F	CK2047U000S	Moterra Sprocket and Lockring
P	K83037	Syntace Thru Axle X12 157x12

ID	Part Number	Description
G	KP173/	Derailleur Hanger TA ST DS 026
Н	KP312/	Open Oval Grommet (QTY=10)
I	KP169/	Tool Jekyll Pivot
J	KP175/X	Brake Adapter Post Mount 160mm
J	KP176/X	Brake Adapter Post Mount 180mm
J	KP177/X	Brake Adapter Post Mount 185mm



ID	Part Number	Description
J	KP178/X	Brake Adapter Post Mount 203mm
K	CK2017U100S	Moterra Chainguide BLK
L	CK3017U100S	Moterra Skid Plate BLK
М	CK3077U000S	Moterra Plug/Grommet
N	CK3277U000S	Moterra Bat Strap

ID	Part Number	Description
	KP205/	Headset Integrated Headshok To Taper
В	K36027	Moterra Pivot CS SS Bearings
	K34667	Moterra DT Protector



## **MAINTENANCE**

The following table lists only supplemental maintenance items. Please consult your Cannondale Bicycle Owner's Manual for more information on basic bike maintenance. Consult with your Cannondale Dealer to create a complete maintenance program for your riding style, components, and conditions of use. Follow the maintenance recommendations given by the component manufacturer's for the various non-Cannondale parts of your bike.

#### CHECK THE FOLLOWING BEFORE EACH RIDE:

- Make sure the battery is fully charged and locked securely in position on the bicycle.
- Check tire pressure and wheel condition.
- Check the drive chain condition. Make sure it is clean and well-lubricated. Chain wear is greater compared with pedal only bikes. This requires frequent
  inspection and replacement.
- Check the bicycle brakes, make sure they are working well. Brake system pad and disc wear is greater compared with pedal only bikes. This requires
  frequent inspection and replacement.
- Inspect condition of electrical cables (i.e. Kinks free, no signs of abrasive wear)
- Test the drive assist system, make sure the drive system functions normally.
- If your eBike model was equipped a lighting system, brake lights, headlights, and number plate illumination, make sure these lights are each functioning normally. Make sure the number plate is clean and readable.

IF YOU FIND ANY DAMAGE, DO NOT RIDE THE BIKE, CONTACT YOUR CANNONDALE DEALER.

#### TO BE PERFORMED BY CANNONDALE DEALER:

Recommended after the first 150 km, bring your bike to your Cannondale Dealer for an initial check-up. It should include checks of the drive assist system, drive chain condition, proper shifting, accessories, wheels and tire condition, brakes, etc. This visit will help you establish a schedule for repeated visits appropriate for how and where you ride.

Every 1000 km, bring your bike in to your Cannondale Dealer for a regular detailed inspection, adjustment, and replacement of wear items across the entire bike. Electrically powered assist cycle (electric bikes) can wear out wheels, tires, drive chain, brakes, more quickly.



ANY PART OF A POORLY MAINTAINED BIKE CAN BREAK OR MALFUNCTION LEADING TO AN ACCIDENT WHERE YOU CAN BE KILLED, SEVERELY INJURED OR PARALYZED.

Please ask your Cannondale Dealer to help you develop a complete maintenance program, a program which includes a list of the parts on your bike for YOU to check regularly. Frequent checks are necessary to identify the problems that can lead to an accident.

