





#### **WELCOME**

We thank you for your confidence in us and we wish you many good times to come with your new COMMENCAL bike.

This manual will help you to get to know your bike and includes some useful information and detail.

We recommend that you read it with care.

#### MANUAL CONTENT

In this manual, you will find all the necessary information to assemble, set up and maintain your bike correctly. You will also find the different security warnings and the warranty terms and conditions.

#### IN CASE OF PROBLEM

If you encounter any problems during the assembly of your bike or have any other questions, don't hesitate to contact us:

- by e-mail: customerservice@commencal.com
- by phone: + 376 73 74 75







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#### **USEFUL INFO**

#### LABELLED DIAGRAM

#### Parts designation

#### FULL BIKE

**01** - Frame **11** - Shifter **02** - Fork **12** - Tire

**03** - Wheel **13** - Rear shock **04** - Disc **14** - Crank

05 - Brake caliper06 - Brake lever15 - Chain guide16 - Chainring

 07 - Handlebar
 17 - Chain

 08 - Stem
 18 - Derailleur

 09 - Seat clamp
 19 - Saddle

**10** - Seatpost **20** - Grip

#### FRAME

Front triangle

**a1** - Toptube **a4** - Rocker/Clevis **a2** - Down tube **a5** - Seatstay

Rear triangle

a2 - Down tubea5 - Seatstaya6 - Chainstay

#### FORK AND WHEELS

 b - Crown
 f - Hub

 c - Stanchion
 g - Spoke

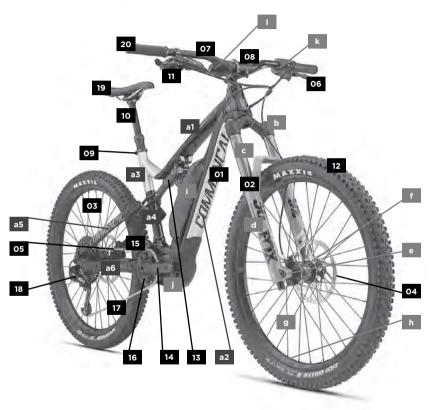
 d - Lowers
 h - Rim

e - Axle

#### SPECIFIC ELECTRIC PARTS

i - Battery k - Shifter j - Motor l - Display

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#### **USEFUL INFO**

#### **ABOUT E-BIKES**

#### **ELECTRIC BIKES (E-BIKES)**

A pedal assisted e-bike enables you to reach a higher speed than a standard bike. The speed is dependant on the import country of your product specifically.

Please be aware that the motor will only provide assistance when you are pedalling. The system provides you with 3 modes of assistance and a walk mode. (See Shimano user manual for more detail)

The Meta Power is a bike designed to ride on gravel roads, moderate tracks and uneven tracks, some steep or technical tracks will require a higher level of bike handeling skill.

If you don't respect these instructions, you risk to damage your bike or to hurt yourself.

#### **RECOMMENDATIONS**

You must remove the battery in case of :

- Performing maintenance/ changing components
- Transport

Use your e-bike only in the range of temperatures: -10°C to 50°C.

Check there is no water on the battery mount electrical connections before installing the battery.

Don't charge your battery in a wet environment. You should charge your battery in an environment which is in the following temperature range 0°C to 40°C.

Keep away from heat sources and direct sun light. For example inside a vehicle on a hot day, etc. Although the system is supposed to be waterproof, you should not submerge the system or bike in water. Don't submerge the battery in cold water or sea water, make sure the battery electrical connections stay dry.

Don't submit your battery to violent impacts, if your battery is damaged or scratched from impact, we recommend that you do not use it anymore and seek replacement.

If you are to charge your battery when installed on the bike, take care not to move the bike or try to disconnect the battery during the charging process. Avoid subjecting the battery charging port or the charger plug to any moisture. Check that your battery is always firmly held in the battery mounts by the lock.

Beware of trapping fingers when performing maintenance on the chain and sprockets.

We recommend using a trouser clip when riding to prevent them from getting caught between the chain and the chain ring.



- The Shimano User Manual will be provided in the accessory box with your bike. It is necessary to read this for more detail.
  - Warning, all inapropriate use (including maintanace) of the electrical system can cause irreversable consequences.
- We strongly suggest that you keep your battery key and key serial number safe.



#### **USEFUL INFO**

#### **ABOUT E-BIKES**

# WEIGHT AND CAPACITY OF THE BIKE

The Meta Power is an e-bike, which is understandably heavier than a regular bike. The weight of the bike is between 20 and 25Kg. The difference is due to the different sizes and models available in the range.

To use this bike, your riding weight should not exceed (inc. helmet, bag, proteciton...) the weight of 120Kg.

COMMENCAL Bicycles are not necessarily designed for use with a luggage rack and/or child seat and/or a trailer. If you want to use or adapt one of the aforementioned, please refer to the corresponding manufacturer's website for all the details, compatibility and maintenance. Please check the precautions to be taken when riding.

## MODIFYING THE ASSISTANCE SETTINGS

We remind you that any modification to the system, or other modification which modifies the speed of the bike, is strictly prohibited.

Any change to the speed can change the legal categorisation of the bike. This can result in your bike not being categorised as an e-bike anymore. This will void the warranty guarantee of your bike.

For all information concerning the SHIMANO display screen and its functions, please refer to the manufacturer's user manual.

#### **ONLINE INSTRUCTIONS**

This manual provides you with all the necessary and concise information to assemble and maintain your bike. You can find this manual on the COMMENCAL Bicycles website. You can also find more information about your bike, some tutorials, videos and much more on the COMMENCAL Bicycles website!

#### WEBSITE

www.commencal-store.com

#### MANUAL

www.commencal-store.com/owners\_manual

#### **TUTORIAL VIDEOS**

tech.commencal.com/tech/

## ONLINE SHIMANO USER MANUAL

si.shimano.com

COMMENCAL decline all responsibility in the event of unclamping or any changes to components if they do not meet the original specifications. It is completely illegal to modify the maximum speed by any means, like for example, software and/or components, etc.)



The A-weighted emission sound pressure level at the driver ears is less than 70 dB(A)



We suggest that you read all the relevant manufacturer manuals for the other components provided on the bike to know the relevant security warnings and set-up.





#### ACCESSORIES PROVIDED

#### CONTENTS OF THE ACCESSORY BOX

- security kit (lights, reflectors, bell)
- Specific Shimano E8000 accessories (user manual, Shimano tool TL-EW02, battery, battery charger, E6000 adaptor).
- Component accessories (manuals and spare parts ..etc...).
- Pedals, Seatstay protector



Keep your battery box for the event of storage or logistics. The box has all the necessary information related to the transport of lithium batteries



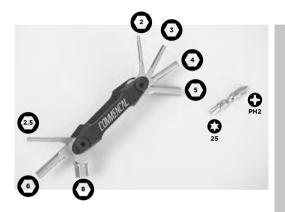


#### TOOLS AND TORQUE TABLE

#### **TOOL LIST**

Find below the contents of the optional tool kit. The different logos on the diagram will help you to understand what tools are needed for every assembly step.

• 1x MULTI-TOOL Allen keys T.2/2,5/3/4/5/6/8mm Torx key T.25 Cross head screwdriver PH2



• 1x HIGH PRESSURE PUMP for your fork and rear shock, if air sprung.



#### TORQUE TO RESPECT

Stem - Steerer Tube 5.5N m Stem - Handlebar Cap 5.5N.m Brake Caliper 8-10N.m. Speed Sensor 2.5-4N.m Derailleur 8-10N.m Brake Lever 2.5-4N.m 40N m Cassette Seat Clamp 5-6N.m Headset 3N.m Chainring 9N.m Grip 2.5-4N.m Pedals 38N.m 6N.m Disc

Torque tightening values indicated in the instructions for fitting the saddle onto the seat post.

Torque tightening indicated for fixing the handlebar and stem.



For frame contact system, please refer to relevant bolt marking for torque information.





#### ASSEMBLY STEPS

#### STEP 1

Unbox the bike vertically (lift it by the rear wheel and fork).



#### STEP 2

Place the bike on the floor. Rotate the fork so that the bike is stable.







A

When unpacking or moving the handlebar, take care not to damage the cables or hoses.





#### **ASSEMBLY STEPS**

STEP 4

Unscrew the front cover of the stem.



STEP 5

Assemble and align the handlebar using the laser marking (you can also set your prefered angle).

STEP 6

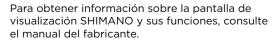
Tighten the front cover of the stem.



STEP 7

Root the electrical wire through the plastic clip.







Ensure equal spacing between the front cover and the body of stem in all 4 positions.



#### **ASSEMBLY STEPS**

STEP 8

Connect the electrical wire next to the existing wire until you hear a «click» sound (use the shimano tool TL-EW02)





STEP 9 Remove the pad spacer from the caliper, Keep the spacer to aid in transportation in the future.





STEP 11 A Assemble the

front wheel into the fork. Install the front axle and tighten using a 6mm allen key.

#### STEP 10 Remove the front axle and apply grease along the shaft and thread.



#### **ASSEMBLY STEPS**

#### STEP 11 B

For auick release axles. tiahten and close it vertically. Refer to the manufacturer manual if the lever does not alian verticaly to change the setting.

> STEP 13 Install the battery on vour frame from the left hand side.

> > (Read the Shimano

Manual to

see all the

necessary

information).

STEPS F8000









#### STEP 12

Alian the stem with the front wheel and ensure there is no play in the headset (see page 44). After, tighten the stem collar screws.



Charge the battery fully before turning on. After every charge, do not switch-on the battery when there is pressure on the pedals.

#### STEP 15

Install the different accessories included. such as the liahts, bell and reflectors. Stick on any frame protection given, such as the seatstay protector.



Keep the keys safe and note the serial number written on the keyring tag.

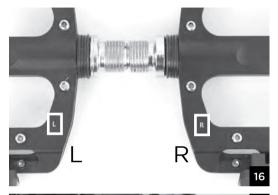






#### ASSEMBLY STEPS

# STEP 16 Identify the left and right pedal. This is clearly shown by a «L» and «R» on the pedal axle









STEP 17

Grease both pedal axle threads.



The left side pedal (L) has a reverse thread (anti-clockwise) and the right side pedal (R) has a classic thread (clockwise)

#### STEP 19

Tighten the left side pedal as shown in the photo.





#### SEATPOST AND SADDLE

#### SADDLE HEIGHT



To adjust your saddle height, untighten the seat clamp (by hand or with an allen key), adjust the height and tighten the seat clamp.



To set the correct height, sit on your bike and put one pedal as low as possible: your leg should be straight.



Your dropper seatpost should be actuated to complete this set-up.





Warning, the maximum insertion line should not be visible.

#### SADDLE POSITION



For your health and comfort, it is important to correctly orientate your saddle. An inapproriate setting could result in uncomfort or pain when using your bike.

To set your saddle positon, unscrew bolts (A and B). First, set the lateral position along the rails to your preference. Second, tighten to achieve a horizontal orientation.



#### BRAKES

#### CALIPER ALIGNMENT



To align the caliper to the disc, unscrew the two bolts by half a turn so it is fairly loose. Turn the wheel and press the corresponding brake lever.



Whilst holding the brake lever, tighten the caliper bolts.

Check that your wheel turns without causing any rubbing (or very little). However, repeat the process if it is not satisfactory.



You must break in your pads before achieving good performance from the brake. You must actuate your brakes 20 to 30 times to slow down from

30 km/h to 5 km/h to break in your pads sufficiently. Brake as hard as possible without stopping the wheel. It is normal to have friction between the disc and the pads before the system has been fully broken in.

# A

Warning, wet conditions can increase braking distance.

#### ADJUST YOUR BRAKE LEVER REACH



You can adjust the reach of the brake lever. Simply turn the fine adjuster found on the brake lever. This can also be in the form of an allen key bolt.

For any maintenance, adjustment, replacement of brake discs or brake pads etc. Please refer to the corresponding manufacturer's website.



The left brake lever operates the front brake.
The right brake lever operates the rear brake.
Incase of doubt, check which caliper is connected
to which lever. (exception: UK, Australia, New Zealand
and Japan use an opposite brake configuration)

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#### AIR PRESSURES

#### FORK AND SHOCK



It is very important to set up your suspension corresponding to your weight. Regulate the pressure of the suspension with the high pressure pump.



To know the correct pressure and settings, please consult the respective manufacturers manual. For coil shocks, tighten the spring to set your SAG.



Stand on your bike fully equipped as if you were going riding. Your suspension should compress to 25%.



We recommend that you check your tire pressure before every ride.

The air pressure will have a significant impact on the behaviour of the bike. We recommend that you adjust your pressure in function of your weight, riding style and terrain.



Warning, you must never exceed pressure limits (max/min).
You risk causing irreversable damage to your bike.
If you can not achieve the correct SAG setting on your coil shock, you should change the coil.

#### TIRE PRESSURES

To know the correct pressure for your tires, look at the manufacturers recommendations found on the side walls of the tires. This will include the maxium and minimum pressure.



#### **DERAILLEUR**

#### **DERAILLEUR POSITION SET UP**



The limit screws prevent your chain from exceeding the limits of the cassette. You have one screw controlling the higher limit (H) and one screw for the lower limit (L). The higher limit corresponds to the smallest cassette ring while the lower limit corresponds to the biggest cassette ring.

Adjust so that you achieve the correct limitation without compromising gear range.



To ensure the correct setting you must be sure that:

- When your chain is on the biggest gear, align the center of the upper guide pulley with the outboard edge of the smallest cog.
- When your chain is on the lowest gear, the derailleur pulley should align with the largest cassette ring.

#### CABLE TENSION



Once your limit screws are set, you have to adjust the cable tensionner. Try shifting through the gears:

- If you have difficulty shifting from smaller to bigger rings then loosen gradually (turn anticlockwise) the cable tensionner to tighten the cable.
- If you have difficulty shifting from bigger to smaller rings then tighten gradually (turn clockwise) the cable tensionner to untighten the cable



Make sure your derailleur hanger is not bent.

Read the manufacturers manual to learn more about specific settings.

If you have difficulties with your settings, please seek advice from a professional.



#### OTHER

#### SET THE HANDLEBAR HEIGHT



If prefered, you can adjust your handlebar height by modifying the spacer stack. To do so, unscrew and remove the topcap. Then, untighten the stem bolts. Remove the stem and adjust the spacer stack to change height.









#### **CONTROLS POSITION**



When you have finished assembling your bike, you can adjust your controls and grips position.
These settings are personal, you are free to set them to your preference.



Do not remove or add spacers to the stack.



Respect the torques provided and be sure that all the controls are working and reachable.





#### **VERIFICATION**

#### BEFORE YOUR FIRST RIDE







# CHECK THAT EVERYTHING IS TIGHT

Check that all the bolts or other tightening features are sufficiently tight, such as the brake calipers, seatclamp, stem, cockpit, levers, headset, derailleur, wheels and so on...

#### THINGS TO CHECK

Check the wheels: they should turn without any problem (trueness, roudness...) and be correctly assembled in the frame or the fork.
Check your brakes: they should work correctly and the levers should not feel too hard or too soft

<u>Transmission:</u> gears should shift easily, the crankset should turn without friction and the chain guide should set to the 34 tooth position.

Check that the pedals and crankset have no play.

#### **SETTING CHECKS**

Be sure that your bike is set up to your body specifically:

- Saddle height.
- Suitable saddle orientation.
- Specific air pressure in suspension and tires.
- Cockpit and controls position adjusted.



#### **VERIFICATION**

#### BEFORE YOUR FIRST RIDE







#### **TIGHTEN HEADSET**

Check that there is no play in the headset.

To do so, stand next to your bike. Push the front brake and place your other hand on the headset. Keep your brake activated and move your bike forward and backward.

If you feel some play, here are the steps to follow:

- 1) Untighten the two bolts of the stem.
- 2) Tighten the topcap to 3N.m maximum.
- 3) Check that there is no more play and your headset can rotate freely.
- 4) Align your stem with the front wheel.
- 5) Tighten the stem bolts.

Contact COMMENCAL Customer Service for info on any changes or modifications of cockpit components (handlebars, stem, grips, etc.).



#### **MAINTENANCE**

#### BEFORE AND AFTER EVERY RIDE







#### **BEFORE EVERY RIDE**

#### **BRAKE CHECK**

Check your brakes. They should be working as usual: not too hard and not too soft.

AIR PRESSURE CHECK Check your suspension pressure by compressing them. They should feel as previously set.

Check that your tires are well inflated (better to do so with a pump with an air pressure gauge).

#### **BOLT CHECKS**

Check all the bolts on your bike and be sure that there is no play. You can check the headset, brake calipers, seatclamp, wheel axle, derailleur, stem, frame bolts...

#### AFTER EVERY RIDE

#### CLEAN YOUR BIKE

Clean your bike with a sponge and water without insisting on the motor and electric parts.

#### BIKE CHECK

Check that there are no problems, any play, defects (cracks, impacts, deformation, scratches, decoloration, strange noises...) on your frame or components.

LUBE YOUR CHAIN After washing your bike, apply some specific lubricant to your chain.



Warning, after use, some parts can be hot: such as disc rotors or the battery.

Warning, do not use a high pressure cleaner. You could damaged seals, bearings, electric system...



#### **MAINTENANCE**

#### MONTHLY / YEARLY

#### **MONTHLY**

CHECK THE BRAKE PADS Check that your brake pads are not worn out. They should have a minimum of 1mm thickness on each pad.

#### **TRANSMISSION**

Clean your transmission, grease it and make sure it works correctly.

Check the wear visually on your chainring, cassette and derailleur pullies.

Check your chain wear with a specific tool.

CABLE AND HOSE CHECK Check that there is no bend, damage or rust to any cables or hoses. If there is, you should replace them.

#### WHEEL CHECK

Check that your wheels are not damaged, rolling striaght with no significant dents.

Make sure that the hubs have no play and turn correctly.

Check the spoke tension.





Good teeth



Worn teeth



If you ride with a damaged wheel you can break your wheel and hurt yourself

#### CRANKSET CHECK Check that there is no play in your crankset.

#### TIRE CHECK

Check the wear of your tires: the material compound, the tread, any cuts or holes... Refer to the manufacturer's user manual for all information regarding the lighting device. In addition, please learn the rules and guidelines in the country of use.

#### **CHECKS**

Check your whole bike: you should find no problems or defects. If you have any doubt, seek advice from a professional.

#### FRAME CONTROL

Look fo any: dents, scratches, cracks, general defects, bearing quality...

#### BRAKE BI FEDING

For better performance and a longer life, we recommand that you get your brakes bled by a professional.

#### **YEARLY**

SUSPENSION MAINTENANCE
We recommand that you
service your suspension with
a professional every year or
every 100h of riding. Refer to
the manufacturers manual to
know the different maintenance
procedures (dates and
operations) specific to each
model.

#### **GREASE**

Clean and grease the following parts:

- Hub
- Crankset (thread)
- Headset
- Seatpost
- Frame bolts and contact system



# **SECURITY WARNING**

#### **GENERAL**

- Always keep your bike clean and in good working order.
- For your security, follow the instructions given in the «before your first ride», «before and after every ride», «monthly» and «yearly» maintenance sections. These steps will enable you to keep your bike running smooth.
- Don't use your bike if you find any problems.
- Always wear a helmet when you ride your bike.
- Respect the laws of the road and the other road users.
- Do not overestimate you physical capability and be aware of the risks associated to bicycle riding.
- Respect the steps of the assembly instruction process and settings process. Use only remplacement parts which are compatible or the same as original components.
- Be sure to break-in your brake pads when new.
- Do not sit your bike upside down, you can damage the cockpit, levers or other parts.
- In case of extreme use (like dirt jumping, tricks, downhill, competition) you are responsible for any injuries that may occur.

#### IN THE EVENT OF A CRASH

If you crash, you must check that no component (or your frame) has been damaged. If so, replace it accordingly. In case of any doubt, seek advice from a professional.

#### **CORRECT USE**

You must respect the intended use your bike was designed for.

If you exceed these limits, you can damage or break your bike or components and, as a result, injured yourself.

# REMINDER TO INSTALL SECURITY ACCESSORIES

We remind you that as well as respecting the law of the road, and other users, you must install all necessary security equipment to be safe on the road.

Refer to the national law in your country for more details.

#### COMPOSITE COMPONENTS

For composite components impact damage may be invisible to the user. In the event of an impact, you should return your component to the manufacturer for inspection or destroy and replace it.



- Warning, intensive use can lead to damage to your bike.
   You should inspect it often to detect any problems.
- Intensive use can lead to damage to components.
- As with all mechanical components, your bike is subject to wear and high stresses. If the design life of a component has been exceeded, it may result in sudden failure and personal injury. 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, incorrect installation, poor assemby procedure or inapropriate parts assembly can lead to irreversable damage to your bike and/or to your health.



# WARRANTY & AFTER SALES SERVICE

#### INFORMATION

#### COMMENCAL WARRANTY

- All COMMENCAL frames are under warranty for 5 years from the purchase date.
- The chainstays are under warranty for 2 years from the purchase date.
- COMMENCAL and RIDE ALPHA components are under warranty for 2 years.
- Finishes like paint, stickers and other are under warranty against the fabrication default of 6 months.
- Components from other manufacturers are also under warranty. For further information, you can contact our after sales service.

#### TERMS OF WARRANTY

The COMMENCAL warranty can only be applied to the first owner and in a case of normal use. You will be asked to provide the invoice as proof.

#### **Accessories:**

When these are offered already mounted, please refer to the corresponding manufacturer's site for all details concerning use and possible maintenance. This also applies to the corresponding spare parts.

#### REASONS YOU MAY BE REFUSED WARRANTY

- Poor or incorrect maintenance/assembly.
- Wrong utilisation/abusive use.
- Competition use
- Modification of the bike (for example: paint, inapropriate components...).
- Failure or damaged after a crash
- Damage due to normal wear and tear under regular use or stress fatigue of component.

#### REPLACEMENT PARTS

COMMENCAL will provide specific frame parts for a maximum of 3 years from the production year of the bike.

#### Liahts

In France it is compulsory to have correctly installed reflectors and front and rear lamps when riding on public roads. These items are provided in the accessory box that comes with your bike. Refer to the manual or manufacturer's website for assembly instructions.



AFTER SALE SERVICE
If you have any questions about your
COMMENCAL/RIDE ALPHA product,
please feel free to contact our after
sales service by email:
customerservice@commencal.com

You can also find all the terms of warranty on our website: www.commencal-store.com

We advise that you to register your bike online on our website.





# CONMENCAL

### To contact us

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## Customer Service

COMESPORT S.A BP36 - Erts AD400 La Massana PRINCIPAT D'ANDORRA

Du lundi au vendredi de 9h à 13h et de 15h à 19h / Monday to Friday from 9 AM to 1 PM and 3PM to 7PM

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