



# OWNER'S MANUAL 2016

FREERIDER



ENGLISH



# A WORD ABOUT THIS SAFETY MANUAL

DEAR KUBERG CUSTOMER

Congratulations on your purchase of a Kuberg Freerider. You now own a state of the art electric motorcycle that will give you endless thrills if you maintain it properly. We welcome you to the community of KUBERG riders.

Your KUBERG Freerider is a performance motorcycle that should be treated with caution and used in safe environments. The Freerider is highly adjustable and can be set up specifically for the rider. Please do not allow the bike to be used or adjusted by other operators.

Your KUBERG Freerider is driven by a powerful electric motor, which requires experience and careful handling. The speed and torque settings **MUST** be set to suit the abilities of the rider. Please remember that even when the torque setting is set to a slow setting, the torque on these motors is virtually instant. This means that opening the throttle will propel the motorcycle to a rapid speed almost instantly. For developing good riding skills this is a wonderful feature, as it will teach riders throttle control gradually with lower power. If the maximum power and torque is set too aggressively, the rider may accelerate to a speed he/she is not comfortable with. Your Freerider has great capabilities, and can grow with the skills of the rider to very high levels of performance, but it is important to start slow and speed up as you improve.

KUBERG motorcycles are designed for off road use only and must not be used on public roads or sidewalks. Please check and obey all local and state laws. KUBERG motorcycles should only be ridden in safe areas where all laws are being followed and all required permissions are given.

KUBERG motorcycles are amazingly capable, and can be used from the earliest stages of learning to ride all the way through to veteran riders. The secret of learning to ride well is being able to ride a lot, and KUBERG motorcycles make this learning process very gratifying teenagers and adults alike. Thanks again for purchasing a KUBERG motorcycle, and we hope you enjoy the ride!

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# TABLE OF CONTENTS

<b>A WORD ABOUT THIS SAFETY MANUAL</b>	<b>3</b>
IMPORTANT SYMBOLS AND TERMS	6
<b>SAFETY ADVICE</b>	<b>7</b>
ELECTRIC DRIVETRAIN	7
SAFE RIDING PRACTICES	7
<b>VEHICLE OVERVIEW</b>	<b>10</b>
2016 KUBERG FREERIDER	10
SPECIFICATIONS - KUBERG FREERIDER	11
<b>BEFORE FIRST RIDE</b>	<b>12</b>
UNPACKING AND ASSEMBLY	12
FIRST SETUP	12
BREAK-IN PERIOD	13
MOTORCYCLE CONTROLS	13
<b>SETTING UP YOUR KUBERG FREERIDER FOR RIDING</b>	<b>16</b>
SETTING POWER & TORQUE MODES	16
SETTING UP THE BRAKES	17
<b>DRIVE TRAIN</b>	<b>18</b>
ADJUSTING CHAIN TENSION	18
MOTOR PERFORMANCE	18
WEATHER EFFECTS ON PERFORMANCE	18
<b>MAINTENANCE</b>	<b>19</b>
BEFORE EACH RIDE	19
DAILY MAINTENANCE AND CLEANING	19
CLEANING	19
FRONT WHEEL REMOVAL AND INSTALLATION	20
REAR WHEEL REMOVAL AND INSTALLATION	20
FRONT AND REAR BRAKE ADJUSTMENT	21
BRAKE SQUEAL	22
ADJUSTING THE SUSPENSION	22
<b>BATTERY USE, CARE AND MAINTENANCE</b>	<b>23</b>
CHARGING INSTRUCTIONS	23

BATTERY REMOVAL AND INSTALLATION	25
LONG TERM STORAGE	26
BATTERY DISPOSAL	26
<b>RIDING INSTRUCTIONS &amp; SAFETY TIPS (BEGINNER RIDERS)</b>	<b>27</b>
FIRST RIDE (NOVICE RIDERS)	27
LEARNING TO STAND UP	27
CORRECT RIDING TECHNIQUE	27
<b>PROTECTIVE EQUIPMENT</b>	<b>29</b>
HELMETS	29
CLOTHING	29
<b>ACCESSORIES</b>	<b>30</b>
<b>LIMITED WARRANTY</b>	<b>31</b>

# INTRODUCTION

## PLEASE READ THIS SAFETY INSTRUCTION MANUAL PRIOR TO OPERATION!

To ensure optimum performance from your new KUBERG motorcycle, and to ensure safe operation, it is important to fully understand the features of the motorcycle. This manual contains **IMPORTANT INFORMATION** that every owner must fully understand. Please read this manual carefully and completely before operating your Kuberg motorcycle. Do not attempt to operate the motorcycle until you have attained adequate knowledge of its controls and operating properties and until you have received training in proper and safe riding techniques.

Motorcycles generally, as well as KUBERG electric motorcycles are single-track vehicles. The safe use and operation of such single-track vehicles depends on proper riding techniques and the experience of their riders (operators).

Please read, understand and follow all Warning, Caution and Note notices on your KUBERG electric bike and those included in this Manual. If you do not understand any of this important information, please contact your selling dealer/distributor or the KUBERG Customer Service Department (Email: [kuberg@kuberg.com](mailto:kuberg@kuberg.com), phone: +420 608 757 353)

### Prop 65 WARNING

**CALIFORNIA PROPOSITION 65 WARNING:** accessories contain lead and lead compounds, chemicals known to the State of California to cause cancer and reproductive harm. Batteries also contain chemicals known to the State of California to cause cancer. Wash hands after handling.

## IMPORTANT SYMBOLS AND TERMS

This Owner's Manual uses the following symbols and terms to call your attention to Warnings, Cautions and Notes:

### **WARNING!**

A Warning indicates a potentially hazardous situation, which if not avoided, could result in bodily injury or death, in addition to damage to property. Read the text accompanying the warning to be aware of the specific hazard.

### **CAUTION!**

A Caution indicates a potentially hazardous situation, which if not avoided, may result in damage to equipment or an inadvertent system failure. Read the text accompanying the Caution to be aware of the specific hazard and to avoid damage or system failure.

### **NOTE:**

*The text accompanying a Note provides helpful or other important related information.*

# SAFETY ADVICE

## **WARNING!**

Failure to obey all of the warnings & instructions contained in this manual may result in serious injury or death and/or permanent damage to your KUBERG motorcycle.

## **SPEED & TORQUE SETTINGS**


Your KUBERG Freerider features a power and torque control button that must be set for the abilities of the rider. This must be set by the responsible supervising adult before each and every ride. Instructing and practicing in a controlled situation will allow the rider to learn how to operate the motorcycle safely. Go to page 16 to find detailed instructions how to set up the different torque modes.

## **WARNING: ADULT SUPERVISION REQUIRED**

This vehicle must be used in the presence of adult supervision to insure that safe riding practices are established and followed. Even though teenagers are of the recommended age to use this vehicle, not all teenagers have the strength, skills or judgment needed to operate this vehicle safely. Parents should permit continued use of this vehicle only if they determine that their child or teenager has the ability and judgment to operate the vehicle safely.

## **WARNING: OFFROAD USE ONLY**

Kuberg motorcycles are designed primarily for OFF-ROAD use. Please check your local, state and national regulations as to whether single-track, motorized electric vehicles are legal for road use in your area. Kuberg Freerider is not homologated for road use in the European Union.

 **WARNING!** This bike is for personal use only and is not intended for commercial purposes. The use of this bike for commercial purposes, such as rentals, will void all warranties.

## **ELECTRIC DRIVETRAIN**

The fully electric drivetrain of this motorcycle is different from any gasoline motorcycle, in that:

- 1** There is very little engine braking and no engine noise.
- 2** When going into corners or coming to a stop the rider will be fully dependent on the bike's brakes.
- 3** Passers-by may not hear you approach – so extra caution should be taken. Make yourself conspicuous in order to reduce the chance of other vehicle users or pedestrians being unaware of you approaching.
- 4** Be aware that your motorcycle is still ON when stopped and while at an “idle”. Accidentally twisting the throttle can cause serious harm.

# SAFE RIDING PRACTICES

- 1 SINGLE OPERATOR ONLY! No passengers!
- 2 Long hair, loose clothing or items worn by the rider must be covered to prevent entanglement in moving parts of the vehicle or the surroundings whilst riding
- 3 Do not exceed the weight limit. Heavier riders may significantly reduce performance and/or render the vehicle unstable and/or over-tax the brakes and other control devices. Heavier riders may cause structural damage not covered by the warranty.
- 4 Do not touch any moving or hot parts.
- 5 DO NOT RIDE AT NIGHT OR UNDER LOW VISIBILITY CONDITIONS. The Kuberg Freerider is not equipped with lights.
- 6 Do not immerse this vehicle in water.
- 7 Do not ride on steep or uneven surfaces. Steep or uneven surfaces greatly increase the likelihood of loss-of-control.
- 8 Do not ride faster than the conditions permit for safe operation. Excess speed greatly increases the likelihood of loss-of-control.
- 9 The rider should be securely seated on the vehicle ready to ride before turning the power switch on.

Ride where other motorists, pedestrians and cyclists can see you. Avoid riding in another motorist's blind spot. Know your skills and limits. Stay within your limits in order to avoid an accident.

## **i** NOTE:

*Many motorcycle accidents are caused by rider error. A typical error made by motorcycle riders is veering wide on a turn due to EXCESSIVE SPEED or under cornering due to insufficient lean angle for the given speed.*

## **⚠** WARNING!

Maintain a proper posture while riding. The posture of rider is important for proper control of the motorcycle. The rider should keep both hands on the handlebars and both feet on the footrests during operation in order to maintain control of the motorcycle. Never ride under the influence of alcohol or other drugs. Go to page 27 to find detailed instructions concerning proper riding technique.

## **ONE RIDER ONLY**

Your bike was engineered to carry one rider and no (0) passengers. Carrying a passenger would overload the motorcycle and alter the handling. Do not allow this to happen.

## **DO NOT OVERLOAD THE BIKE**

Exceeding the weight limitations will adversely affect the handling of the motorcycle, and potentially cause damage.



## **OBEY ALL LAWS**

Obey all laws. KUBERG bikes are for OFF-ROAD USE ONLY. KUBERG bikes cannot be used on public roads or sidewalks. The purchaser, owner, and/or riders of this motorcycle are directly responsible for ensuring that they obey all local, state, federal and national laws regarding the riding and use of this motorcycle.

## **WEATHER & RIDING CONDITIONS**

Do not ride in the rain or snow. Please be aware that distance required to stop under wet conditions may be double or even triple the usual distance required under dry conditions. If riding in adverse weather conditions, ride more slowly, and anticipate your stops by applying the brakes MUCH earlier. Do not allow children to ride on slopes that are too steep for their ability.

## **NIGHT TIME**

Do not ride after dark or in low light conditions.

## **BATTERIES**

We have equipped your KUBERG Freerider with highly advanced lithium-ion batteries. Go to page 23 to learn about these batteries and the correct charging procedure.

## **BE AWARE OF THE MOTORCYCLE'S CHAIN**

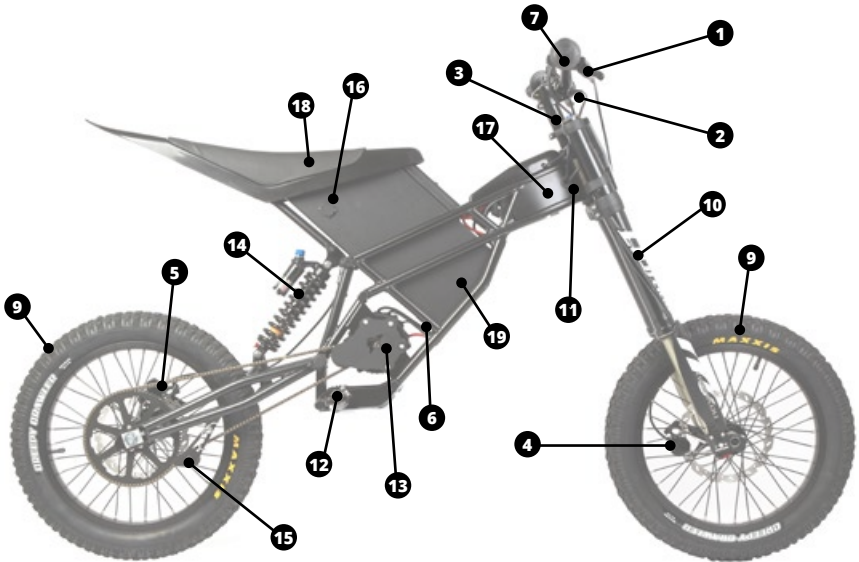
Under no circumstances should hands or other body parts be close to a moving motorcycle chain. Riders should wear motorcycle boots without laces, and should not wear any loose clothing that could be caught by the chain.

# VEHICLE OVERVIEW

## 2016 KUBERG FREERIDER

For teens and adults looking for serious acceleration, the powerful FREERIDER opens the door to a whole new riding experience.

- 1 Throttle
- 2 Handlebar
- 3 Steering column
- 4 Front brake
- 5 Rear brake
- 6 Number plate
- 7 On-off switch
- 8 Fender
- 9 Tire
- 10 Front forks
- 11 Speed & torque control button
- 12 Foot pegs
- 13 Motor
- 14 Shock absorber
- 15 Chain tensioner
- 16 Charge port
- 17 Controller
- 18 Seat
- 19 Battery



**i NOTE:**

*Be aware of the motorcycle's chain.*

*Under no circumstances should hands or other body parts be close to a moving motorcycle chain.*

*Riders should wear motorcycle boots without laces, and should not wear any loose clothing that could be caught by the chain.*

## SPECIFICATIONS – KUBERG FREERIDER

<b>TOP SPEED</b>	55 KM/H (34 MPH)
<b>WEIGHT</b>	36 kg (79 lbs)
<b>POWER</b>	8000 watts, 48 V motor
<b>BATTERIES</b>	20 Ah 48 V, lithium-ion
<b>CONTROLLER</b>	KUBERG BLDC PRO
<b>INPUT STANDARD</b>	110 V or 220 V
<b>TRANSMISSION</b>	Clutchless one speed
<b>FINAL DRIVE</b>	80T / 10T, chain 219H
<b>FRAME</b>	Steel double cradle tube frame, powder-coated
<b>WHEELBASE</b>	48.5" (123 cm)
<b>SEAT HEIGHT</b>	34.5" (86 cm)
<b>HANDLEBAR HEIGHT</b>	41.0" (104 cm)
<b>FRONT AND REAR BRAKES</b>	Hydraulic Disc Brake System Tekro Auriga
<b>BRAKE DISCS</b>	Hardened 203mm brake discs SBT 35 HRC 203mm
<b>BRAKE PADS</b>	Sintered brake pads
<b>FORKS</b>	Manitou Dorado Expert 180mm with air pump
<b>SHOCK ABSORBER</b>	DNM Burner RB-RCP
<b>TIRES</b>	20" × 2.5" Maxxis Creepy Crawler
<b>CARRYING CAPACITY</b>	Maximum 220 lbs (100 kg)
<b>COLORS</b>	Black
<b>WIFI</b>	WiFi ready - adapter sold separately

### **⚠ WARNING!**

The KUBERG FREERIDER is designed to operate at 48 volts only. Use of any battery voltage other than 48 volts will result in motor failure. KUBERG Inc. considers modifications and/or changes to its electrical components to be a material alteration of its products, thereby voiding any warranties and/or guarantees in their entirety. Kuberg Inc. will not be responsible for any injuries, and/or death and/or other damage(s) caused by such modifications.

# BEFORE FIRST RIDE

## **i** NOTE:

If you purchased your KUBERG motorcycle at a local dealer your motorcycle may be fully adjusted and ready to ride. If you purchased your KUBERG still in the original packing, please carefully follow the instructions below and any supplemental instructions in order to complete the assembly and adjustment of your KUBERG.

## UNPACKING AND ASSEMBLY

### **⚠** WARNING:

Failure to properly assemble and adjust your bike prior to use may result in an accident, resulting in death, serious injury and/or damage to property. If you are uncertain about any aspect of the assembly and adjustment of your bike, seek help from a qualified mechanic or KUBERG Customer Service.

- 1 Remove your KUBERG Freerider from the box.
- 2 Place the motorcycle on a solid and level surface.
- 3 Remove all the packing materials.
- 4 Using the supplied Allen wrench (Allen Key), make sure the steering stem is in the forward facing position and tighten the top and side bolts securely and evenly. Secure the handlebars tightly in the steering stem. Double check tightness and alignment.
- 5 Adjust the brake lever positions to suit the rider.

## FIRST SETUP

- 1 Check the tire pressure of both tires and confirm that they are properly inflated. The optimal tire pressure for the Kuberger Freerider is 35 – 50 PSI (2.4 – 3.4 bar) for general use and should never exceed 50 PSI (3.4 bar).
- 2 Unpack the charger from its box and charge the batteries, being sure to follow the correct charging procedure. Go to page 23 to find detailed charging instructions.
- 3 Compress each brake lever. The lever should not compress completely to the handlebar. Each individual brake should hold the bike securely when you push the motorcycle against the brake. If your brake needs adjustment, follow the instructions on page 21. For novice riders, adjust the front brake so it will not lock the front wheel easily. All riders should be aware which lever operates which brake.
- 4 Check the chain for tightness and lubrication.
- 5 Set the power and torque settings to an adequate level for the rider's experience and riding skills. Go to page 16 to find detailed instructions concerning how to set speed limits and different riding modes.

### **⚠ WARNING!**

There are no user serviceable elements incorporated into the motor, motor controller, batteries, battery charger, throttle, or wiring harness of your KUBERG electric bike. DO NOT ATTEMPT TO DISASSEMBLE OR ADJUST ANY OF THESE COMPONENTS. Doing so may cause extensive damage to these components, will void your warranty, and may result in danger to persons and/or property. If you cannot resolve any problem using this owner's manual, contact your KUBERG authorized dealer, or call the KUBERG Customer Service for assistance.

## **BREAK-IN PERIOD**

To assure future reliability and top-notch performance of your Kuberg Freerider, please, pay extra attention during your first 50 km/30 miles (three full-charge cycles).

- Avoid full-throttle starts and accelerate gradually.
- Avoid hard braking. New brakes need some time to break in with moderate use for the first 50 km/30 miles or three full charges.

## **MOTORCYCLE CONTROLS**

### **MAGNETIC KILL SWITCH**

Magnetic kill switch is located on the left hand side of the handlebars. Always switch the bike into the OFF position when stopped or parked.



### **⚠ WARNING!**

If the power is turned on and the throttle is open, the bike will accelerate immediately. This is potentially very dangerous. The rider's right hand should be used to switch the power on, with no hands on the throttle.

## **SPEED & TORQUE CONTROL BUTTON**

The speed & torque control button allows a responsible adult to set bike's maximum power and torque. There are three distinct power & torque modes. Go to page 16 to read detailed instructions concerning how to set the various power & torque modes. Do not attempt to guess or assume these settings. Always check them before allowing the rider back on the bike.

## CHARGING PORT

When it's time to recharge the bike, the battery charger connector attaches to this port. Before attaching, ensure that the power is switched to the off position. Please refer to the battery and charging section (page 23) of this manual for more information.



### **⚠ WARNING!**

The power on the motorcycle must be switched OFF before attaching and plugging in the charger.

## CHARGE INDICATOR

The LED battery charge indicator is located on a plastic cover between the seat and the handlebars. The LED illuminates green when the bike is fully charged, yellow when the charge reaches



65% and red when the battery charge reaches 30%. The red light will start blinking when the battery charge is very low. From this point, the bike will start losing power and will be able to travel roughly 2 – 3 km (1 – 2 miles) before the motorcycle shuts down completely.



# SETTING UP YOUR KUBERG FREERIDER FOR RIDING

There are several ways to set up your Kuberg motorcycle for riding. You can adjust the settings for:

- 1 Maximum power and torque
- 2 Braking power

## **⚠ WARNING!**

Improper set-up is dangerous! It is your responsibility to set the motorcycle to the ability of the rider. Failure to do so, may result in injury or death, and/or damage to your motorcycle.

## **i NOTE:**

*A responsible adult must ensure that the Kuberg Freerider and its rider are prepared for every ride. The motorcycle must be set to the abilities of the rider, and the rider and the bike must be supervised when ridden by a child or a teenager. Novice riders can lose concentration quickly, and be easily distracted. If the speed is set too high or the brakes too severe an accident could occur. RIDE SAFE!*

## SETTING POWER & TORQUE MODES

Follow these steps to limit the maximum power and torque on your KUBERG Freerider:



- 1 Turn off your bike.



- 2 Press and hold the control button. The control button is located on the left side near the steering column.
- 3 Turn on your bike.



- 4 The bike will beep one, two or three times to indicate the desired power mode.
  - One beep indicates Beginner Mode (low-power), two beeps indicate Sport Mode (medium-power) and three beeps indicate Race Mode (maximum-power).
  - For example, if you want the medium power mode, hold the control button for two beeps and release. The bike will confirm your selection with an audible “one”, “two” or “three” beep sound.
- 5 The power mode is now set. If you want to set a different power mode level, repeat the process from step 1.

 **CAUTION!**

Sport and Race modes should only be used by experienced riders!

## SETTING UP THE BRAKES

The brakes on Kuberg motorcycles are adjustable. Novice riders should have the front brake ‘backed off’ somewhat so it does not bite too suddenly. As the rider gets better, the brake can be tightened up for a quicker reaction and a stronger braking force. Go to page 21 to find detailed instructions on how to set up the brakes.

# DRIVE TRAIN

Your KUBERG Freerider features a traditional chain and sprockets. It is direct drive with no gears. The chain should not need to be adjusted on a regular basis, especially when the bike is new.

However, it is important to check the chain before every ride and adjust it when necessary. There should be very little slack in the chain.

## ADJUSTING CHAIN TENSION

Follow these steps to adjust the chain tension:

- 1 Ensure the power is turned off.
- 2 Remove the chain tensioner by removing the mount bolt.
- 3 Loosen the axle nuts and band brake mount bolt.
- 4 Turn the adjustment nuts evenly on both sides. Very small movements make a big difference. Do not tighten so much that there is no slack at all. It should be 'taught', not 'tight'.
- 5 While the chain guard is off, lubricate the chain & check the sprocket bolts for tightness.
- 6 Repeat the above procedure, ensuring all bolts are tight.
- 7 Check the wheel for alignment, and the chain for tension.

### **WARNING!**

Failure to maintain and adjust the chain and align the wheel correctly could result in the chain jumping off the sprockets, causing a potentially dangerous and damaging situation.

## MOTOR PERFORMANCE

The Kuberg Freerider has multiple sensors and control software to prevent the batteries, motor and the controller from overheating. Once the temperature of batteries, motor or controller reaches a high temperature, the bike's power will be limited to 70% until the components are able to cool down. If the bike continues to overheat, the controller will shut off the bike until the components have cooled. This takes approximately 15 to 30 minutes.

Thermal shutdown of the motor can occur when riding in situations that stress the motor for long periods of time, such as long up-hills or continuous full throttle operation with no rest period for the motor.

## WEATHER EFFECTS ON PERFORMANCE

Very cold weather is hard on the motorcycle's batteries and, as a result, the battery charge will not last as long as in warm weather. This is normal and does not require maintenance or servicing.

# MAINTENANCE

Kuberg motorcycles generally require significantly less maintenance compared to traditional gas bikes due to their having very few moving parts, no engine and no exhaust. Our authorized dealers have extensive experience and know Kuberg bikes inside and out, so they can provide high-quality service for your Kuberg motorcycle. However, service at a dealer is not required to maintain your warranty.

## **⚠ WARNING: PROPER MAINTENANCE OF THIS VEHICLE IS REQUIRED**

Failure to maintain this vehicle in proper operating condition may lead to an accident resulting in death or serious injury, and/or damage to property. If you have any questions about the proper care and maintenance of this vehicle, consult your selling dealer/distributor or contact KUBERG Customer Service (kuberg@kuberg.com, +420 608 757 353).

## BEFORE EACH RIDE

Before each ride, make sure that all bolts and nuts are fastened securely and that the tires are properly inflated. Before each ride, check that the throttle and brake controls are operating freely. Adjust and lubricate the drive chain as necessary. This vehicle should be returned for periodic maintenance to your selling dealer AT LEAST once per year, but more frequently if used under severe or heavy use conditions.

## DAILY MAINTENANCE AND CLEANING

Keep your KUBERG Freerider clean and dry. Regularly check all components for tightness and adjustment, including handlebars, levers, axles, chain and brakes. Check the settings for torque and maximum speed. Check the tires for damage and for proper inflation.

## CLEANING

Cleaning and maintaining your Freerider correctly will provide a more enjoyable ownership and riding experience. By hand cleaning the bike, you can simultaneously inspect all of the components. When cleaning the motorcycle, make sure that the charger port is closed before washing. You are free to wash your Freerider with a water hose or a power wash. While the bike's components are waterproof, be careful when washing the bike around the electrical components, especially the controller.

### **⚠ WARNING!**

Do not operate your KUBERG if any damage is apparent. Immediately contact your local retailer/distributor or KUBERG Customer Service.

### **⚠ WARNING!**

There are no user serviceable elements incorporated into the motor, motor controller, batteries, battery charger, throttle, or wiring harness of your KUBERG electric bike. **DO NOT ATTEMPT**

**TO DISASSEMBLE OR ADJUST ANY OF THESE COMPONENTS.** Doing so may cause extensive damage to these components, will void your warranty, and may result in danger to persons and/or property. If you cannot resolve any problem using this owner's manual, contact your KUBERG authorized dealer, or call the KUBERG Customer Service for assistance.

## FRONT WHEEL REMOVAL AND INSTALLATION

- 1 Make sure the power is switched off.
- 2 Lift the bike onto a block or stand so that both wheels are off the ground.
- 3 Loosen the axle bolts and lower the wheel away from the front forks.
- 4 To re-install the wheel, reverse the above procedure and ensure the wheel is aligned correctly and the axle bolts are tight.
- 5 Spin the wheel to ensure it is centered and spins freely.



## REAR WHEEL REMOVAL AND INSTALLATION

- 1 Make sure power is switched off.
- 2 Lift the bike onto a block or stand so the wheels are off the ground.
- 3 Remove the chain-tensioner by removing the main bolt.
- 4 Loosen the axle bolts.
- 5 Loosen the chain adjustment nuts to the point where the wheel can be pushed forward, and the chain slipped off to the right of the sprockets.
- 6 Pull back on the wheel to remove it.
- 7 To re-install the wheel, reverse the above procedure and ensure the wheel is aligned correctly and the axle bolts are tight.



## FRONT AND REAR BRAKE ADJUSTMENT

- 1 Using an Allen wrench (Allen Key), loosen the brake cable fixing bolt.
- 2 With the wheel raised, manually pull up the brake caliper arm until there is resistance when you try to spin the wheel.
- 3 Re-tighten the cable fixing bolt. Test that the cable will not slip, by pulling hard on the lever a number of times. Fine adjustments can be made at the handlebar lever.
- 4 If the wheel does not spin freely with the brake released, the caliper position itself can be moved by using an Allen wrench (Allen Key) on the back side of the caliper.

**⚠ WARNING: KUBERG brakes are adjustable.**

Novice riders should have the front brake 'backed off' somewhat so it does not bite too suddenly. As the rider gets better, the brake can be tightened up for a quicker and stronger response from the brake lever.

# BRAKE SQUEAL

Dirt and humidity can cause noisy or squealing brakes. These are normally temporary and should gradually disappear with regular use. Repair is not required. If you hear a metallic “screaming” sound you might need to replace the brake pads. Visit your KUBERG dealer to replace the brake pads.


# ADJUSTING THE SUSPENSION







The KUBERG Freerider features both front and rear suspension.

## FRONT SUSPENSION

The front suspension on your KUBERG Freerider is adjustable, the Manitou Dorado Expert front fork has settings for damping.

### Dorado Quick Set-up Guide

AIR SPRING PRESSURE	RIDER WEIGHT		SPRING PRESSURE, PSI [BAR]			SET UP NOTES
	lbs	kg	soft	standard	firm	
	>220	>100	85 [5.8]	92 [6.3]	100 [6.9]	<ul style="list-style-type: none"> <li>• Recommended air pressure 50-90 psi [3.4-6.2 Bar]</li> <li>• Max pressure not to exceed 110 psi [7.58 Bar]</li> <li>• The fork should be unweighted when adjusting air pressure</li> <li>• Static Sag should be 25-35 % of travel</li> <li>• See owners manual for sag measurement procedure</li> <li>• All damper adjustment positions are taken from full-closed/clockwise (Position 0 = Maximum damping)</li> </ul>
	200-220	92-100	75 [5.2]	82 [5.7]	92-100	
	170-199	77-91	65 [4.5]	72 [5.0]	77-91	
	140-169	64-76	55 [3.8]	62 [4.3]	64-76	
	120-139	54-63	50 [3.4]	55 [3.8]	54-63	

DAMPING ADJUSTMENT	FUNCTIONAL DESCRIPTION	ADJUSTMENT CLICKS (OPEN-CLOSED)	STANDARD TUNING (MIXED TERRAIN)	DH RACE TUNING (ROOTY/ROCKY)	FREERIDE TUNING (BURMS & JUMPS)
<b>REBOUND</b> 	Controls the speed at which wheel returns to sagged position after compression event. 	<b>+ 18-0 -</b> MAX MIN	<b>9</b>	<b>14</b>	<b>6</b>
<b>HIGH-SPEED</b> 	Controls the damping force for short travel unsprung wheel movement; roots, rocks, braking bumps, etc. 	<b>+ 16-0 -</b> MAX MIN	<b>8</b>	<b>4</b>	<b>12</b>
<b>TPC+</b> 	Controls the damping force for deep travel sprung chassis movement; jumps, drops, etc. 	<b>+ 16-0 -</b> MAX MIN	<b>8</b>	<b>12</b>	<b>4</b>

## REAR SUSPENSION

Your KUBERG Freerider is equipped with a single coil spring and a DNM Burner RB-RCP shock. For a harder/stiffer ride at the rear tighten the adjustment ring in a clockwise direction. For a softer ride, loosen the adjuster by turning anti-clockwise.

# BATTERY USE, CARE AND MAINTENANCE

For the proper use, maintenance and storage of the battery, it is critically important that you follow and understand the instructions in this manual.

If you have any questions about the battery or its usage, please do not hesitate to contact the KUBERG Customer Service Department.

## **⚠ WARNING!**

Failure to properly use, charge and store this battery will void the warranty, and may cause danger or damage. DO NOT use this battery with any other vehicle or appliance. Use of this battery with any other product will void the warranty, and may create a hazardous situation that may cause a fire resulting in severe injury or death, and/or damage to property.

## **⚠ WARNING! Never short circuit the discharge terminals of the battery.**

A short circuit will damage the battery and may cause a fire resulting in severe injury or death, and/or damage to property.

## **⚠ WARNING!**

Never manipulate the battery, never open the battery pack and do not puncture the battery cover or the battery itself.

## **⚠ CAUTION!**

Keep the battery away from excessive heat and/or open flames. Avoid long term exposure to direct rays from the sun.

## **⚠ CAUTION!**

Protect the batteries from water or other moisture. If the batteries become wet from rain during use, dry as soon as possible. Remove the batteries from the bike before washing.

## **⚠ CAUTION!**

To avoid damage to the battery, never subject it to intense physical shock or severe vibration.

## CHARGING INSTRUCTIONS – KUBERG FREERIDER

Always follow these steps when charging your Kuberg Freerider.

- 1 Make sure your Kuberg Freerider is turned off.



- 2 Connect your charger to an electrical outlet (AC).



- 3 Turn on the power switch on the charger.



- 4 Wait for 30 seconds.
- 5 Connect the charger cable to the battery connector on your bike.



**⚠ CAUTION!**

If the charger is plugged into the bike with the charger switched OFF, a potential in-rush of electrical current from the bike's battery to the charger may damage the charger.

- The recommended charging time for a fully discharged battery is 2.5 hours
- After 1.5 hours of charging, the battery should be charged to about 80 %
- After 2.5 hours, the battery should be charged to 99 % of capacity

**⚠ WARNING!**

Only use the supplied battery charger. Using any other battery charger will void the warranty and may damage the battery.

- The LED light on the charger will illuminate RED while charging.
- The LED light on the charger will illuminate GREEN when the battery is fully charged.



**⚠ CAUTION!**

The battery charger supplied with your Kuberg FREERIDER is for INDOOR use only.

## IMPORTANT NOTES ABOUT BATTERY CHARGING

**⚠ WARNING!**

- Do not cover the charger or its fan while charging, this can cause the charger to overheat and may damage the charger and/or the bike's electrical components.
- Avoid any contact with water or other fluids while charging the battery. If the battery, charger or any connections become wet, immediately unplug the charger and thoroughly dry all components.
- Only charge under the constant supervision of an adult. Children must not operate the charger.
- Keep the charger and the motorcycle away from flammable items during charging.
- Never dismantle or disassemble the supplied charger. Never use the supplied charger for any purpose other than charging a KUBER Freerider motorcycle.

## BATTERY REMOVAL AND INSTALLATION

During normal use, KUBERG does not recommend removing the batteries from the Kuberg Freerider. Should you need to replace the battery or remove it, KUBERG highly recommends taking the motorcycle to a certified technician or a Kuberg dealer. If you choose to remove or replace the battery yourself, please follow the following instructions carefully:

- 1 Ensure the power switch is in off position.
- 2 Remove the seat by removing the two bolts under the rear fender and sliding the seat backwards.
- 3 Unplug the battery connectors, one at a time. Note the direction and position of the batteries, and the terminal for each wire. When it comes time to reconnect, each wire must be connected to the correct terminal.
- 4 Push the remaining positive and negative wires to the front and sides of the bike, so the battery pack can be carefully lifted out.
- 5 To re-install the batteries, reverse the above procedure.

**⚠ WARNING!**

Incorrectly connecting the battery wires to bike's terminals may cause irreparable damage to motorcycle's electrical components.

## LONG TERM STORAGE

If you do not plan to use your Freerider for an extended period of time (1 week or more), remove the batteries from the bike for storage (or alternatively disconnect it from the controller, and also disconnect it from the charger) and drain your battery pack to 50-60% of its capacity (i.e 46 Volts for Freerider) , and store it in a cool place. It is not necessary to refrigerate the battery (although that would actually be OK), but the battery should be stored in a place that is NOT warm. It is not advisable to place the battery in a freezer, since the battery voltage would sag badly, until the battery warms to room temperature.

Our motorcycles can be stored indoors or around flammable objects only if the battery is physically disconnected.

You must disconnect the battery after every ride. Never leave the motorcycle unattended while the battery is still connected.

If you have any questions about the batteries or their usage, please do not hesitate to contact the Kuberg Customer Service ([kuberg@kuberg.com](mailto:kuberg@kuberg.com)).

## BATTERY DISPOSAL

We are confident that you will enjoy many kilometers or miles of thrilling riding with your KUBERG motorcycle. But, batteries can eventually wear out. When this happens, we urge you to properly dispose of your used batteries. For guidance regarding proper disposal of your batteries, please contact the KUBERG Customer Service ([kuberg@kuberg.com](mailto:kuberg@kuberg.com)). Also, you can find useful information regarding used battery drop-off sites from the Rechargeable Battery Recycling Corporation (RBRC) at [www.rbrc.org](http://www.rbrc.org).

# RIDING INSTRUCTIONS & SAFETY TIPS (NOVICE RIDERS)

With the bike set up correctly, your Kuberg Freerider is ready to ride! For novice riders, please follow these tips and instructions. The riders will get the most enjoyment if they feel safe and in control. Do not be tempted to start the riders too quickly. Make sure the speed and power settings are set slow to begin with. For first time riders, this should be near walking pace.

## FIRST RIDE (NOVICE RIDERS)

Sit down on the bike and locate the controls while the bike is switched OFF. After you understand the controls and are comfortable with them, it's time for the first ride. For this, make sure you are dressed correctly in suitable safety gear. Boots, gloves, a helmet and eye protection are necessary. The area for riding must be flat, open and safe, with no obstacles of any kind. The motorcycle must be set up correctly, with the speed and torque tuned to a slow setting.

- 1 Ensure the power is turned off.
- 2 Sit down on the bike, rock the motorcycle from side to side, and forward and back, to get comfortable.
- 3 Switch the motorcycle ON, by switching the power switch to the ON position.
- 4 Before twisting the throttle, you should have your legs off the foot pegs and spread out.
- 5 Twist the throttle smoothly and slowly and set off.
- 6 Once comfortable, lift your feet onto the foot pegs as you ride.
- 7 Once stopped, turn the power switch to the OFF position and unplug the magnetic kill switch.

## LEARNING TO STAND UP

Once the basics are mastered, the speed and torque settings can be switched to faster and more powerful settings, step by step, to match the improving skills of the rider. Before you get going too quickly it's a good idea to learn to ride the bike 'correctly'. This means, standing up and in control. Learning to stand up is difficult if a rider does not have good throttle control. If the speed setting is low, the rider must rotate their wrist 'around' the throttle so that when they stand, the wrist is in the correct position. As the power and torque settings get higher, the 'dead-zone' in the throttle diminishes, so it becomes easier to stand up and work the throttle.

## CORRECT RIDING TECHNIQUE

Learning a correct riding techniques will prepare the rider for all forms of riding that come later. The rider needs to learn to control the bike at slow speeds, and use correct technique to execute tight turns. The natural approach of many riders is to turn the handlebars but this is not a correct

riding technique. The correct technique is to lean and use so-called counter-steering. Counter-steering is turning the handlebars in the opposite direction as the rider intends to travel. This will cause the bike to lean and turn in the desired direction. Counter-steering needs to be taught slowly and smoothly, sudden movements of the handlebars may cause an accident.

If tight turns are mastered correctly, many other skills will follow naturally.

# PROTECTIVE EQUIPMENT

Always follow these instructions for protective equipment for every ride in order to limit the risk of injury in case of an accident. The KUBERG Freerider is intended for OFF ROAD use and therefore there is a high likelihood of dirt and other debris being thrown into the air, which presents a risk of injury. Also, there is a high possibility of an accident or a fall.

The rider should use and wear:

- 1 A high quality helmet approved by your country's governing body
- 2 A helmet face-shield or goggles
- 3 Protective clothing that covers rider's legs, ankles, torso and arms
- 4 Wrist, knee and elbow protection
- 5 Heavy boots
- 6 Gloves made from tear resistant materials (leather or kevlar)
- 7 A motorcycle jacket made from tear resistant materials (leather or Kevlar)
- 8 Clothing that is brightly colored so other vehicle users and pedestrians can see you

**⚠ WARNING: THE RIDER MUST WEAR PROTECTIVE EQUIPMENT, ESPECIALLY HELMET, BOOTS AND EYE PROTECTION.**

## HELMETS

There is no single factor that works best for reducing the severity of injuries sustained in accidents more than a quality helmet. Don't ever allow your KUBERG motorcycle to be ridden without a helmet.

## CLOTHING

Motorcycle leathers and padded protection for knees, back and arms can prevent abrasion injuries in the event of a fall. Failure to use appropriate safety equipment greatly increases the likelihood of death or serious injury in the event of an accident.

- Never wear loose-fitting clothes; as these may catch on wheels, chains, control levers or footrests.
- Do not wear shoes with laces as these can get caught in motorcycle's chain or wheels and result in serious injury.
- Boots should not have laces.

# ACCESSORIES

Adding accessories or cargo to your KUBERG motorcycle can negatively affect its stability and handling. To avoid the risk of an accident, use extreme caution when adding accessories or cargo to your KUBERG bike. Use additional care when riding with added accessories or cargo.

 **CAUTION!**

The total weight of the rider, accessories and cargo must not exceed the maximum load limit.

 **WARNING!**

Never attach any large or heavy items to the handlebar, front fork, or front fender.

Genuine KUBERG accessories have been specifically designed for use on this motorcycle. Since KUBERG cannot test all other accessories that may be available, you are personally responsible for the proper selection, installation and use of non-KUBERG accessories. Use extreme caution when selecting and installing any accessories.

# LIMITED WARRANTY

KUBERG motorcycles are warranted to the original retail purchaser to be free from defects in materials and workmanship in the frame and components except for batteries, tires, and inner tubes for a period of thirty (30) days from the date of purchase. Batteries are warranted to the original retail purchaser to be free from defects in materials and workmanship for a period of thirty (30) days from the date of purchase. Tires and tubes are warranted to be free of manufacturing and material defects for thirty (30) days. Such tire and tube warranty shall not include flat tires, tire cuts, skid through, over inflation blowouts, or other such misuse or normal hazards. Warranties are limited to repair and/or replacement of bike and/or parts found by KUBERG to be defective, at the sole discretion of KUBERG.

KUBERG Limited Warranty does not cover or apply to the following: Normal wear and tear; any damage, failure and/or loss caused by accident, shipping, misuse, neglect, abuse and/or failure to follow instructions or warnings as stated in the applicable owner's manual or other printed materials provided with the product; damage, failure and/or loss caused by the use of the product for stunt riding, ramp jumping, speed competition, inappropriate off-road use, acrobatics, trick riding or other similar activities, or in any other manner for which such products were not specifically designed. This warranty does not apply to any products or components, mechanical and/or electrical, which have in any way been altered from their original configuration by any person. KUBERG will not be liable and/or responsible for any damage, failure or loss caused by any unauthorized service or use of unauthorized parts.

The KUBERG Limited Warranty does not cover or apply to any KUBERG product used for rental or commercial purposes unless the specific product is designated, labeled, or marketed by KUBERG as acceptable for rental or commer-

cial use. All warranty claims must be made directly to selling retailer. The selling retailer is the primary provider of warranty support and customer service. KUBERG may choose to perform warranty service at the sole discretion of KUBERG. The original owner of the product must provide proof of purchase prior to approval of any warranty claim. Under no circumstances does this limited warranty include any costs associated with shipment and/or transportation to or from retailer, distributor or KUBERG. KUBERG, at its sole discretion, has the option of replacing with a new part, a factory recertified part, or repairing any defective product and/or component there- of, or to pay to the owner of such product an amount equal to the original purchase price of such product. The original owner shall pay for all costs of labor associated with any warranty claims. This warranty supersedes all previous warranties. The warranties stated herein are in lieu of and expressly excludes all other warranties not expressly set forth herein, whether express or implied by law or otherwise, including, but not limited to, any warranties for merchantability and/or fitness for any particular purpose. KUBERG shall in no event be liable or responsible for incidental or consequential losses, damages or expenses in connection with their electric dirt bike products.

The liability of KUBERG hereunder is expressly limited to the replacement of goods complying with this warranty or at the sole election of KUBERG to the repayment of an amount equivalent to the purchase price of the product in question.

## ⚠ CAUTION!

Some states may not permit the exclusion or limitation of consequential damages and therefore, such limitations may not apply to the consumer in which such impermissible exclusions are involved.

Contact information on the back cover.



**KUBERG s.r.o.**

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