

ROSSO E-BIKE X

ELECTRIC DIRT BIKE



OWNERS MANUAL

**PRIOR TO FIRST USE, READ THIS MANUAL COMPLETELY AND ATTENTIVELY! IMPERATIVELY FOLLOW THE SAFETY INSTRUCTIONS!
NONOBSERVANCE CAN LEAD TO PERILOUS INJURIES! CAREFULLY KEEP THIS MANUAL!**

**PLEASE INSPECT THIS EQUAD Q UPON ARRIVAL AND REPORT ANY
DAMAGES THAT MAY HAVE OCCURRED DURING SHIPPING**

SAFETY WARNING

Riding an electric dirt bike can be dangerous. Like other electric products, electric bikes can and are intended to move, and it is therefore possible to lose control, fall off and/or get into dangerous situations that no amount of care, instruction or expertise can eliminate. If such things occur the rider may be seriously injured or die, even when using safety equipment and other precautions.

RIDER ASSUMES ALL RISK, USE COMMON SENSE

This manual contains many warnings and cautions concerning the consequences of failing to maintain, inspect or properly use this eBike X. Because any incident can result in serious injury or even death, we do not repeat the warning of possible serious injury or death each time such a possibility is mentioned.

PROPER USE & ADULT SUPERVISION REQUIRED

This manual contains important safety information. It is the owner's responsibility to review this information and make sure that all riders understand all warnings, cautions, instructions and safety topics and ensure that young riders are able to safely and responsibly use this product.

Rosso Motors recommends that owners periodically review and reinforce the information in this manual with younger riders, and inspect and maintain this machine to ensure any rider's safety. An owner's decision to allow a child to ride this product should be based on the child's maturity, skill and ability to follow rules.

Keep this product away from small children and remember that this product is intended for use only by persons who are, at a minimum, completely comfortable and competent while operating the product.

SAFETY INFORMATION

ALWAYS follow safety information, product instructions and recommended maintenance and care, to ensure the best possible performance, lifespan and experience with a new ebike!

ALWAYS wear proper protective safety equipment. (See details below)

ALWAYS check and obey any local laws or regulations that may affect the locations where the eBike may be used.

ALWAYS ride defensively and hold the handlebars with both hands at all times.

ALWAYS ensure the rider is physically large enough to operate and control the bike. Rider weight does not necessarily mean they are large enough to physically reach controls.

ALWAYS watch out for potential obstacles that may collide with the bike or force the rider to swerve suddenly or lose control.

ALWAYS be careful to avoid pedestrians, skaters, skateboards, scooters, bikes, children or animals who may enter the ebike's path, and respect the rights and property of others.

ALWAYS be careful and know rider limitations. The risk of injury increases as the degree of riding difficulty increases, The rider and adult supervisor assume all risks associated with aggressive riding activities.

ALWAYS regulate speed by applying both brakes when riding an ebike downhill.

AVOID towing other objects. Weight in excess of the recommended capacity (90lbs) will reduce the ebike's performance and may damage the motor.

AVOID riding near stairs, ledges, or excessively bumpy, uneven or steep slopes that may result in tipping or loss of control leading to accidents.

AVOID riding near bodies of water such as ponds, swimming pools or drainage ditches. Accidental submersion will most likely result in damage to the unit.

AVOID riding in wet or icy conditions as it may result in less traction and loss of control.

AVOID riding this ebike on concrete, asphalt, etc. eBike X tires are designed for off-road use and treads will wear faster on hard abrasive surfaces.

AVOID riding at night or when visibility is limited and use vehicle lights as needed.

NEVER allow more than one person to ride at a time. Not only can this be unsafe but it will reduce the ebike's performance and may damage the motor.

NEVER immerse in or saturate the bike with water, as the electrical and drive components could be damaged by water or create other possible unsafe conditions. While shallow depths of water, such as shallow puddles or a few cm of mud or snow are most likely ok, avoid levels of water that may be near to or deeper than the unit's ground clearance. If excess moisture is splashed up on the eBike X, use a towel to dry affected components to minimize the possibility of damage or corrosion.

NEVER ride the bike in any area where vehicle traffic is present. Intended usage is on private property and closed courses and not on public streets or sidewalks unless permitted by local regulations.

NEVER perform jumps or other aggressive riding as it can over-stress and damage the product, eBike Xs are manufactured for performance and durability but are not impervious to damage. The rider and adult supervisor assume all risks associated with such high-stress activity.

NEVER activate the throttle unless sitting properly on the bike and in a safe, open, outdoor environment suitable for riding.

NEVER use headphones or a cell phone when riding.

NEVER touch the brakes or electric motor on the ebike when in use and/or immediately after riding as they can become very hot.

NEVER place fingers or any other body parts near the drive chain, steering system, wheels and all other moving components.

NEVER risk damaging surfaces such as carpets or flooring by riding an ebike indoors.



DO NOT EXCEED WEIGHT LIMIT 90LBS (41KG)



PROPER RIDING GEAR

Always wear proper protective safety equipment whenever riding a dirt bike. A helmet should always be worn to prevent injuries, and may be legally required by local law or regulations. A helmet with full protection for the chin and jaw in case of an accident is also recommended. This style of helmet can be purchased directly from our website. Other safety gear such as wrist, elbow or knee protectors or gloves are also a great choice for extra protection.

Clothing for riding is also very important. Clothing should be properly fitted and weather-appropriate. Long-sleeved shirts and long pants are also helpful to minimize possible skin abrasions. Always wear appropriate shoes that securely lace or velcro up and have rubber soles. Never ride barefoot, in sandals, flip flops or slides. Ensure that no articles of clothing in whole or in part are near to or capable of being caught in moving parts. (eg. untied laces, drawstrings, scarves, etc)

ASSEMBLY

- The Rosso eBike X requires minimum assembly.
- Please follow the instructions below in order to get this eBike X assembled properly
- An assembly video can also be found at <https://youtu.be/b2DrDNYvCfQ>
- For stability and to make assembly easier, we recommend leaving the e-dirt bike attached to the base of the metal shipping cage until installing components on that portion of the bike.

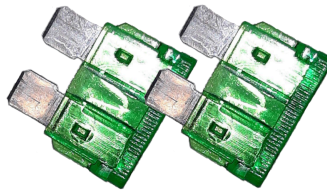
1. Unboxing:

Carefully cut open the eBike X box and slide out the metal framed ebike. Unbolt the lower frame bolts and remove the top portion of the cage. For stability and to make assembly easier we recommend leaving the ebike attached to the base of the metal shipping cage until installing specific components requires it to be free. Keep all packaging until assembly is complete to ensure no small parts are left behind. Check that the following smaller components are included.

Charger



Fuses



Handlebar Clamp



Reflectors



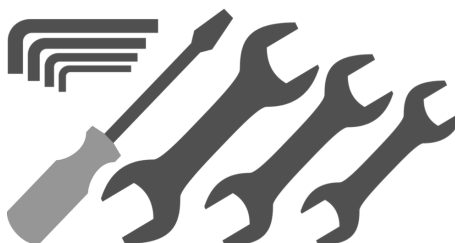
Ignition & Speed Keys



Tail Light

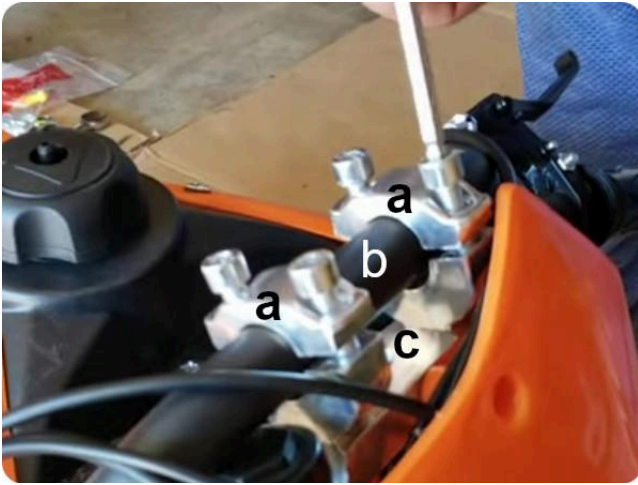


Tool Kit



2. Handlebar installation:

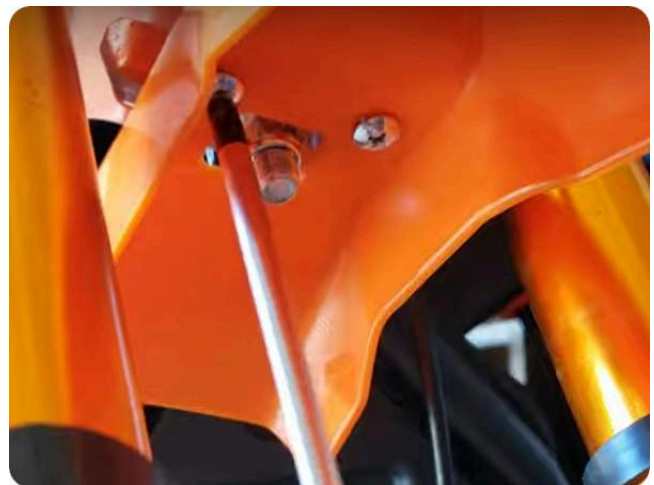
Attach the handlebar clamps(a) overtop of the handlebars(b) with the included bolts, correctly position and center the handlebars, tightening the bolts into the handlebar bracket(d).



⚠ FAILURE TO PROPERLY ADJUST & TIGHTEN THESE BOLTS CAN CAUSE LOSS OF CONTROL & ACCIDENT ⚠

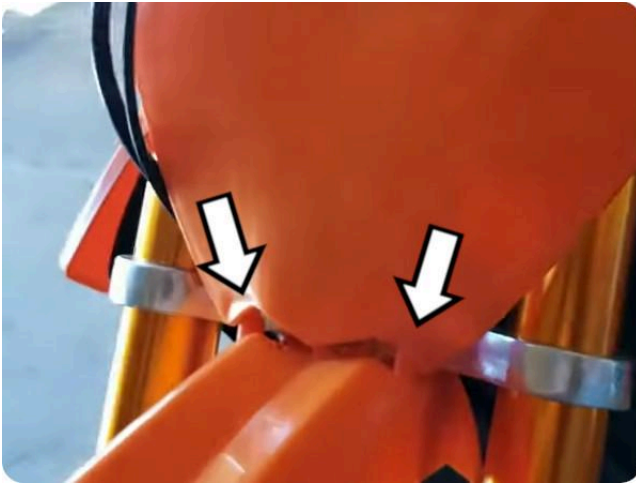
3. Front fender installation:

Remove the 3 fender mounting bolts (2 on the underside, one on the front) from the bottom shock clamp(a). Align the fender holes with those on the shock clamp and replace the bolts.



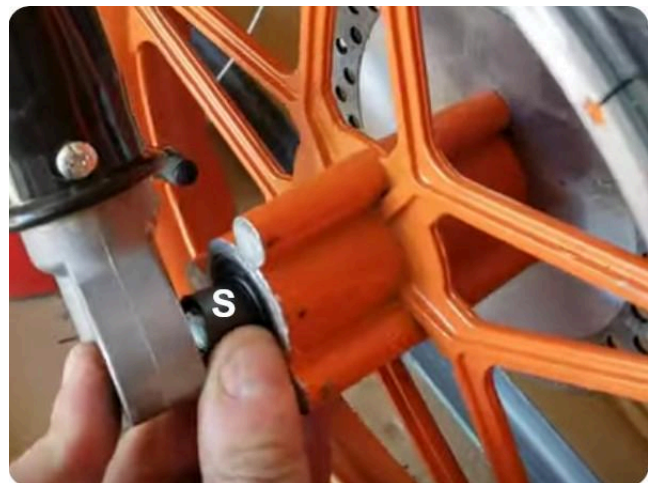
ASSEMBLY continued...

Loosen the mounting bolt on the number plate and shift the number plate into position slotting the plastic pins on the fender into the holes on the bottom of the number plate. Tighten the mounting bolt on the number plate.

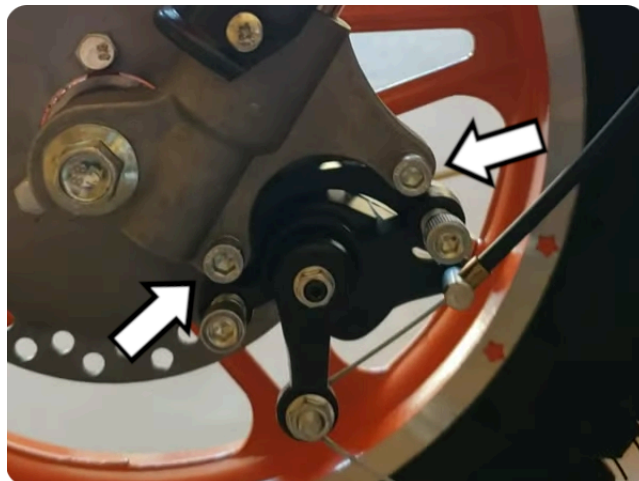


4. Front wheel installation:

Remove the front forks from the frame by unscrewing the nut on the front axle and then removing it. Be careful not to lose the nut or the spacers as these are the hardware needed to install the front wheel. Move the front wheel into position with the brake disc on the left-hand side where the mounting bracket for the brake caliper is. Reinsert the axel from the left-hand side with the larger (L) of the 2 spacers on the axle between the left fork and the brake disc and the smaller (S) of the spacers between the right side of the rim and the right fork. Using 2 wrenches tighten the axle nut back onto the axle.



The last step in the front wheel installation is to attach the brake caliper. Slide the caliper over the brake disc and align the mounting bracket. Secure the caliper to the fork with the 2 hex bolts from the hardware box. Secure the brake cable with the clamp located on the fork just above the wheel.



5. Rear shock installation:

Remove the back wheel from the frame and discard the frame. You will notice that the back end of your bike is quite low and the kickstand is not functioning properly, this is due to the rear shock not being completely installed. Straddle and grip the rear tire and pull upward on the rear of the seat. This will extend the back end and align the rear shock into the correct position



ASSEMBLY continued...

6. Fuse installation:

Find the fuse case on the red positive battery wire, located under the seat near the charging port. Open the case, install one of the included fuses and securely close the fuse case.



7. Reflectors & Final adjustments

Attach the red rear reflectors to the reflector mount located underneath the very rear of the seat with the included nuts. Attach the front orange reflectors by screwing them directly onto either side of the front fork by the fender.

Adjust the position of the brake levers, and secure them in place by tightening the single bolt. Double-check and tighten all hardware that may have loosened during shipping and ensure the tires are filled to the correct pressure (7PSI recommended)



THE BATTERY MUST BE FULLY CHARGED BEFORE FIRST USE. SEE PG 10 FOR FULL DETAILS ON THE CHARGING AND BATTERY CARE.

COMPONENT DIAGRAM

eBike X Components:



(a) forward/reverse gear switch

(b) 36V Battery (3x12V 12AH)

(c) controller

(d) 1000W motor

(e) 3-speed switch (left side) & charging port (right side)

(f) throttle/battery meter & front brake lever

(g) rear brake lever

(h) kickstand

OPERATION

Basic Operation

With the dirt bike powered on, gently twist the throttle until the desired speed is reached. Release the throttle and squeeze both brake levers to stop.

Charging

Step 1 - Ensure the eBike X is turned off (see instructions pg 11)

Step 2 - Plug the charger into a wall outlet. It should illuminate **green** indicating it is in ready/standby mode, if the indicator light does not come on double-check that the wall outlet has power.

Step 3 - Plug the charger into the charging port located on the battery pack.



The charger's light should then change to **red** indicating that it is actively charging. The time for a full recharge is **6-8 hours**. Once fully charged the charger will switch back to the **green** light standby mode indicating that charging is complete and the charger can be removed. Do not leave charging overnight unattended. Chargers have built-in over-charge protection to prevent the batteries from being overcharged, however, unplugging the charger from the wall outlet when not in use is best for the charger itself. Batteries are only to be charged under adult supervision.

Run time is up to 120 minutes of ride time. Run time may vary depending on riding conditions, rider weight, climate, and/or proper maintenance. Constant stopping and starting may shorten ride time. For best results, charge the battery immediately after riding.

Fully charge the battery before storing it for an extended period and then every **3-5 weeks**. Failure to recharge the battery periodically may result in reducing the battery's overall lifespan or result in a battery that will not accept a charge. Make sure the eBike is turned OFF when the unit is not in use for the least amount of battery discharge.

To ensure long battery life, never store the product in freezing or below-freezing temperatures! Freezing will permanently damage the battery. Always disconnect the charger before wiping down and/or cleaning the ebike.

Chargers may become warm or emit sound during regular use, this is a normal response and is no cause for concern. Oppositely if it does not do either that does not indicate it is not working properly. If the charger becomes very hot, please unplug it and contact Rosso Motors technical support. The charger supplied with the ebike should be regularly examined for damage to the cord, plugs, enclosure and other parts. In the event of such damage, the ebike must not be charged until it has been repaired or replaced.

⚠ CHARGE THIS EQUAD WITH THE SUPPLIED CHARGER ONLY. EQUADS MUST BE REGULARLY CHARGED TO MAINTAIN THE BATTERIES AS DESCRIBED ABOVE ⚠

Ignition Switch

The eBike X can be turned on by placing the key into the ignition switch (located on the right handlebar) and turning it clockwise to the ON position. Turn the key counter-clockwise to turn the bike back to the OFF position.

Battery Level Indicator

The battery level indicator is located on the throttle on the right handlebar. This lit gauge has a series of 4 bars that display the battery power from full to empty.

3-Speed Switch

Using the provided speed switch keys, the speed setting can be changed by turning the key to the desired speed. Once the speed is set and the key removed the dirt bike is locked into that speed setting. Do not leave the key in the 3-speed switch while operating the bike.

Speeds setting for the eBike X are:

Low: 4-8 km/h

Medium: 14-18 km/h

High: 25-30 km/h

Gear Shifter

To change between forward and reverse, while stationary, turn the gear shift knob, located on the body between the rider's legs, to the desired position. Turn the knob to off for neutral. **Always bring the vehicle to a complete stop before changing gear, failing to do so will result in damage to the switch.**

PRE-RIDE CHECKLIST

Ensure to check the following before each ride to ensure maximum safety:

- ☐ **Brakes** - Check the brakes for proper function. When the levers are squeezed, the brakes should provide positive braking action.
- ☐ **Tires** – Check tires periodically. Inspect tires for excess wear and replace them as needed. (Please note riding on abrasive surfaces such as concrete or asphalt will increase tire wear.) Regularly check the tire pressure and inflate as needed. Recommended tire pressure: 7 PSI. (Maximum: 20 PSI)
- ☐ **Frame and Handlebars** - Check for loose, cracked or broken connections, and proper alignment. Although broken frames are rare, aggressive riding can lead to a strong enough collision to bend or break the frame.
- ☐ **Hardware** - Check and secure all fasteners (nuts, bolts) before every ride. If the unit is damaged, do not ride it.
- ☐ **Rider** - Ensure the rider can operate the eQuad and is wearing proper clothing and safety equipment as described on pg 03.
- ☐ **Location** - Ensure the area is open and free of hazards. Follow any laws or regulations

MAINTENANCE

⚠ MAKE SURE THE POWER IS PROPERLY TURNED OFF BEFORE PERFORMING ANY CLEANING, MAINTENANCE OR ADJUSTMENTS ⚠

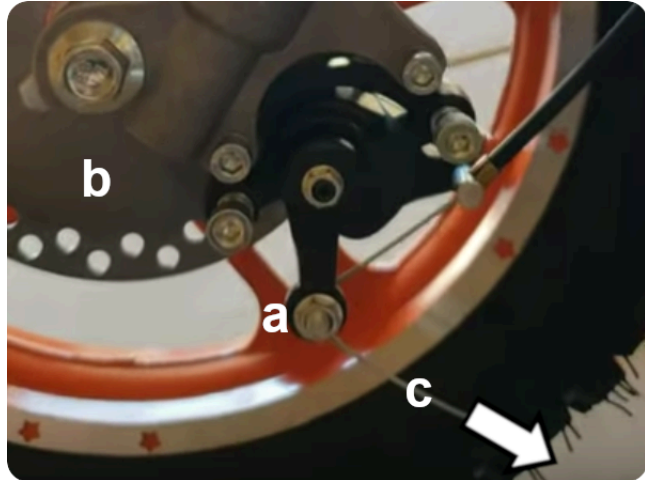
Cleaning

Wipe surfaces off with a damp cloth and neutral detergent. Do not clean with a pressurized source of water.

Brake adjustments

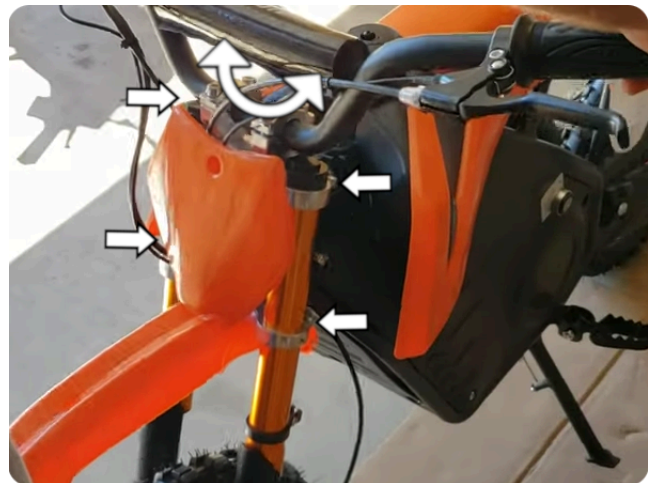
Failure to inspect and properly adjust brakes increases the risk of having an accident. Riding with worn brake pads can reduce braking performance and cause an accident. Check and adjust brakes if needed before each ride.

To adjust cable play on the left (rear) or right (front) brake lever, tighten/loosen the adjuster. To adjust the calipers, loosen (do not remove completely) the anchor nut(a) and pull the brake cable(c) until the brake pads are almost touching the rotor(b) (brake disc). Tighten the anchor nut(a).



Wheel Alignment

In the event that the front wheel is not correctly aligned with the handlebars, it will need to be adjusted. Loosen but do not remove the bolts on either side of both the upper and lower shock clamp. Holding the front wheel in place, twist the handlebars until straight alignment is achieved, then retighten the bolts.

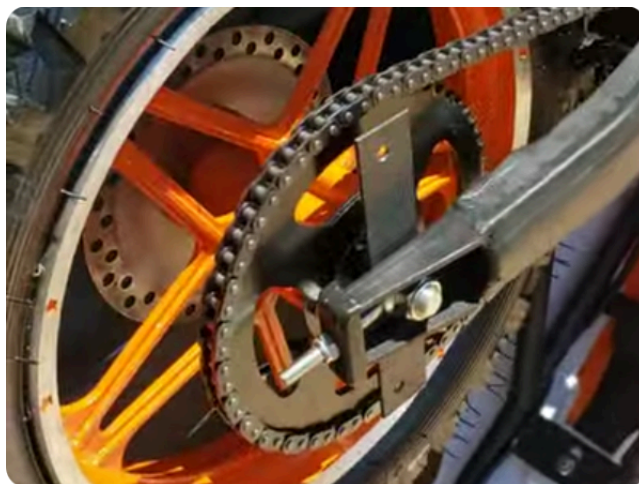
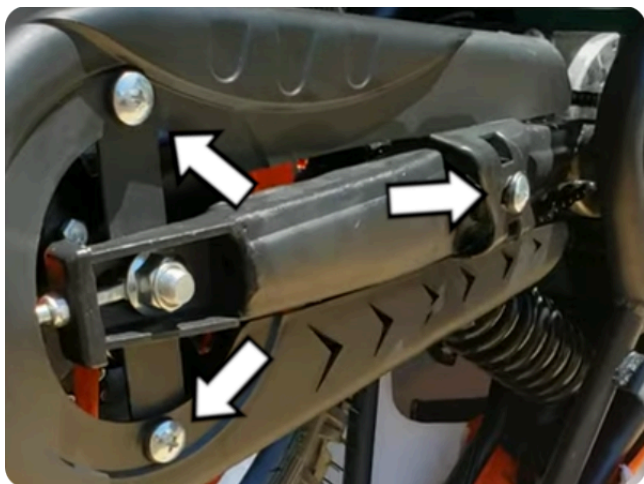


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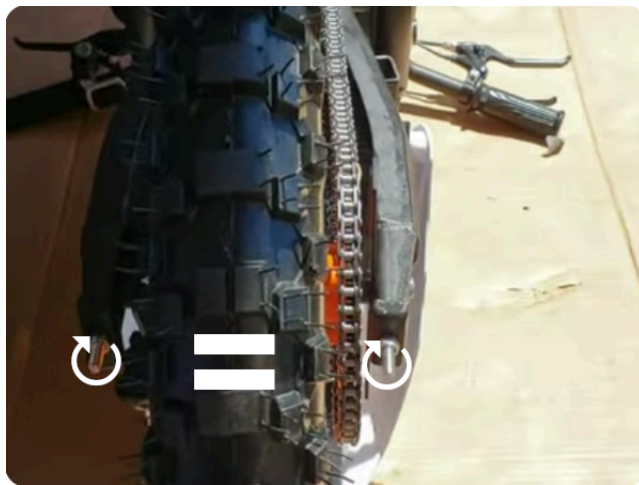
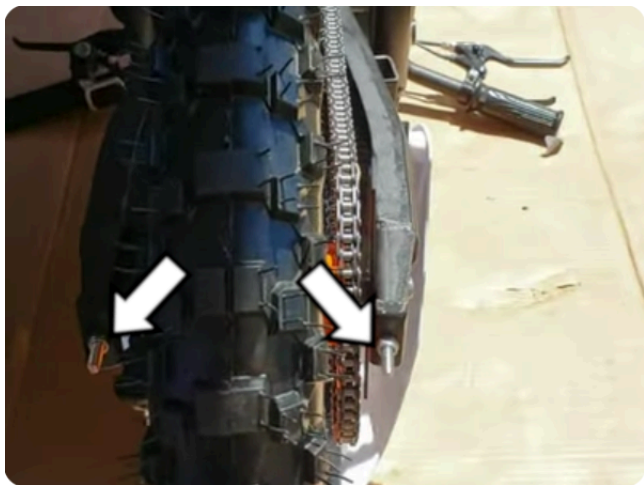
Chain

The eBike X is chain-driven and should be periodically lubricated with lithium spray. The chain may make some clicking noises, this is **normal**. Always inspect, maintain or adjust the chain, if necessary, before each ride. Riding with a chain in poor condition or one improperly adjusted, can lead to serious injury. If the chain is loose, wobbly or falling off, which may happen over time from stretching with use, it will need to be tightened. Before adjusting the chain, make sure the motor is cool. **Do not touch the motor after use. The motor will be, or can be, very hot.**

To tighten the chain, start by carefully turning and resting the eBike X upside down to allow free access to the back wheel and chain. Then remove the bolts holding the chain guard in place.



Once removed, locate the chain tensioners holding each side of the axle. Carefully turn the nut on each tensioner one at a time, adjusting them in equal amounts until the chain is at the correct tension. A properly tensioned chain should be snug but flex when pressed, it should also not make contact with the frame at any point.



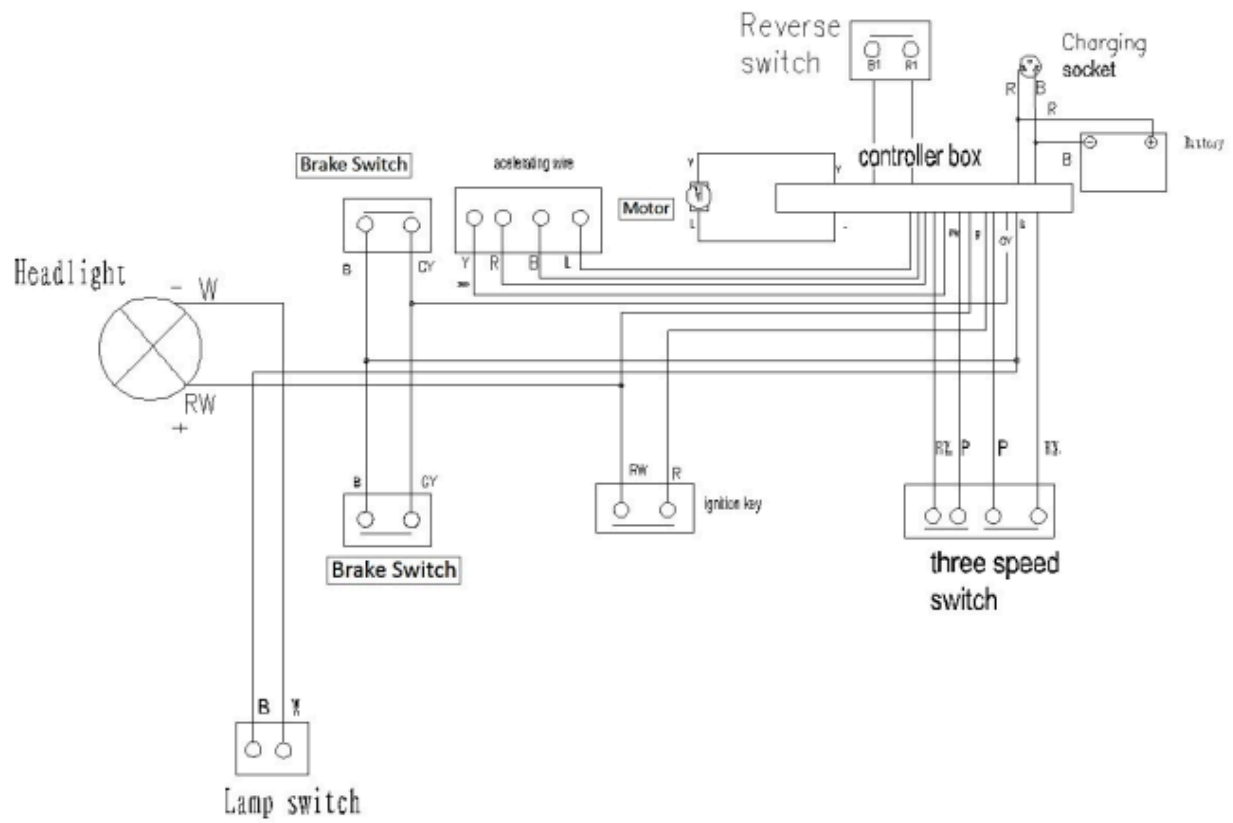
Once the adjustments to the chain have been made, the chain guard can be replaced.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Power does not turn on	Fuse not installed/burnt out	Replace fuse
	Bike is turned off	Turn ignition switch on
	Battery not connected	Connect battery
	Battery not charged	Charge battery
	Loose connection	Check connections on the battery, controller & main switch
Power ON but doesn't move	Throttle failure	Check throttle connections or replace throttle
	Brakes are too tight	Adjust brakes
	Motor connections loose	Check and tighten connections
	Brake lever not released	Release brake lever
	Gear shifter failure	Check connections to gear shifter or replace if necessary
Low travel distance	Battery low/ not charged	Charge battery
	Low tire pressure	Inflate tires
	Chain is loose	Adjust chain
	Over weight capacity	90lb recommended weight capacity
	Brakes are too tight	Adjust brakes
Bike not charging	No power at the outlet	Check power to the outlet
	Charger damaged (no lights)	Replace charger
	Battery damaged	Refer to pg 10-11 for battery care

The tips above are a basic troubleshooting guide. Please contact our technical support for help with any issues, technical questions or concerns.

WIRING DIAGRAM



WARRANTY

ROSSO MOTORS warrants this product to be free of manufacturing defects for a period of 6 months from the date of purchase. This limited warranty does not cover normal wear and tear components, (tires, tubes, brake cables, etc) or any damage, failure or loss caused by improper assembly, maintenance, care, storage or use of the **eBike X**.

This Limited Warranty is voided if the product is:

- Used in a manner other than for recreation
- Modified in any way
- Rented

ROSSO MOTORS is not liable for incidental or consequential loss or damage due directly or indirectly to the use of this product.

For more information on the warranty please see our FAQ section online:

www.rossomotors.ca/pages/faq

For any request regarding warranty, spare parts or replacement devices do not hesitate to contact us by phone or e-mail. Office hours are Monday to Friday 9am to 4pm PST. Have an order number or order information ready before contacting us.

E-Mail:

hello@rossomotors.com

Telephone:

[1-888-897-5909](tel:1-888-897-5909)



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