

ROSSO E-QUAD

X
2023

ELECTRIC ATV



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 X UPON ARRIVAL AND REPORT ANY DAMAGES THAT MAY HAVE OCCURRED DURING SHIPPING

SAFETY WARNING

Riding an electric ATV can be dangerous. Like other electric products, electric ATVs 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 eQuad. 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 can 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 eQuad!

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 eQuad 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 quad. 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 quad 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 eQuad'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 eQuad downhill.

AVOID allowing more than one person to ride at a time. Not only can this be unsafe but it will reduce the eQuads performance and may damage the motor.

AVOID transporting cargo or towing other objects. Weight over the recommended capacity (90lbs) will reduce the eQuads 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 eQuad on concrete, asphalt, etc. eQuad 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 immerse in or saturate the eQuad 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 within eQuads the body, use a towel to dry affected components to minimize the possibility of damage or corrosion.

NEVER ride the eQuad 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, eQuads 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 eQuad 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 eQuad 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 eQuad indoors.



DO NOT EXCEED WEIGHT LIMIT 90LBS (41KG)



PROPER RIDING GEAR

Always wear proper protective safety equipment whenever riding an eQuad. A helmet should always be worn to prevent injury 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 in colours coordinated with most eQuads designs. 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 eQuad X requires minimum assembly.
- Please follow the instructions below in order to get this eQuad X assembled properly.
- An assembly video can also be found at <https://youtu.be/391UgZp587k>.

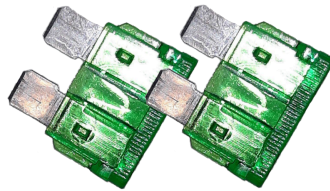
1. Unboxing:

Carefully cut open the eQuad box and slide out the metal framed eQuad. Unbolt the lower frame bolts and remove the top portion of the cage. The eQuad can now be unbolted from the frame or left for now to keep the unit still while the assembly process is finished. If left attached to the frame, unbolt before using. It is recommended to 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



Fob w/ Ignition & Speed Keys



Tail Light

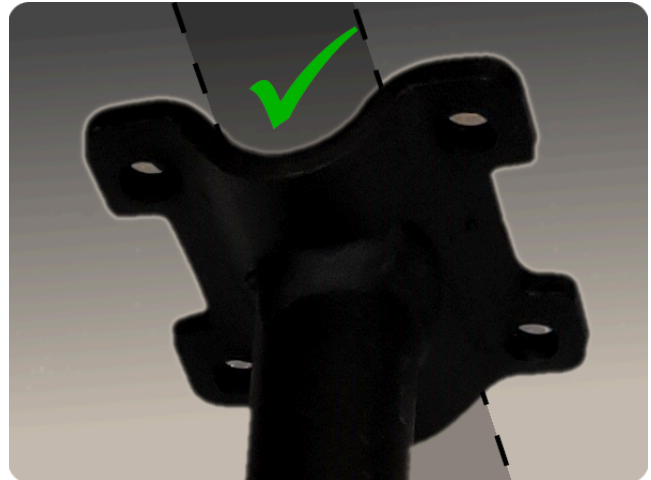
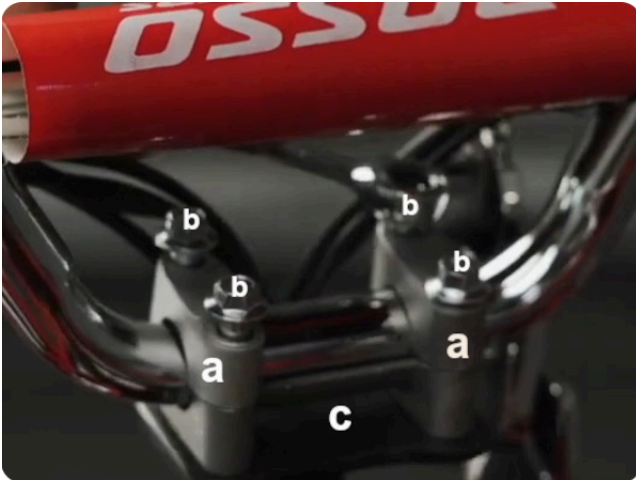


Tool Kit



2. Handlebar installation:

Attach handlebar clamps (a) ovetop of the handlebars with the included bolts (b), correctly position the handlebars, tightening the bolts into place in the handlebar channel (c) which is now integrated into the steering column.



NOTE the handlebar mount (left image) has been updated, the handlebars now sit directly in the curve at the top of the steering column (right image) and are bolted into place with the 2 individual top clamps

With handlebars installed, the position of the brake levers can be adjusted. Loosen, adjust and secure them in place by tightening the bolt.

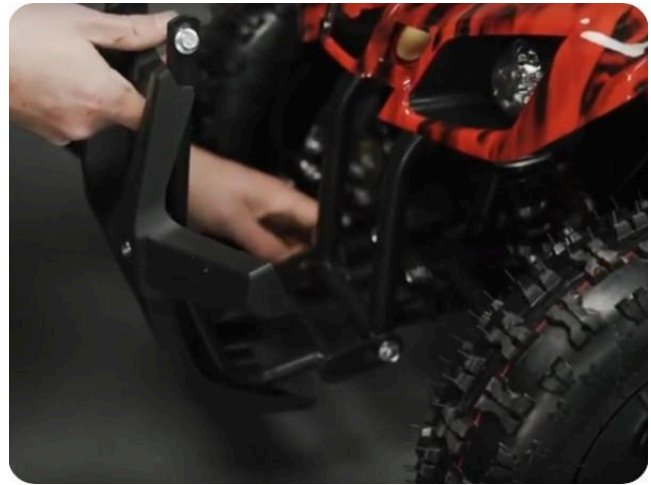


⚠ FAILURE TO PROPERLY ADJUST & TIGHTEN THESE BOLTS CAN CAUSE LOSS OF CONTROL & ACCIDENT ⚠

ASSEMBLY continued...

3. Front rack and bumper installation:

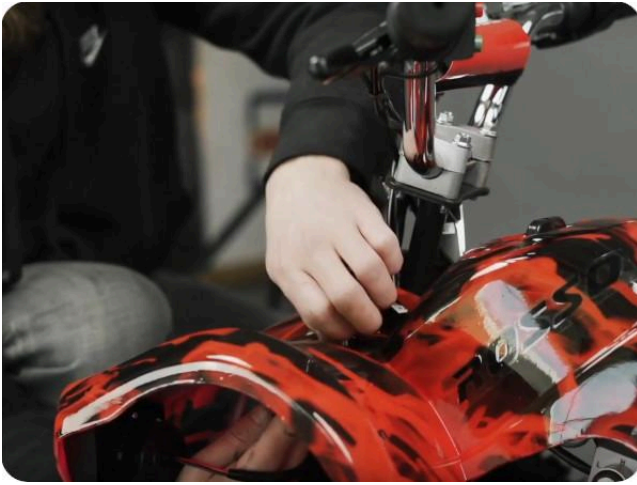
Ensure the plastic bumper piece is attached to the metal bumper with the provided bolts. Remove the bolts from the bottom mount on the front of the frame, position the bottom holes of the bumper over the mount holes and hand-tighten the bolts back into place.



Remove the bolts from the top of the bumper, align the holes on the bumper with the ones on the front of the front rack, then replace the nuts and bolts, hand tightening for now.



Locate and remove the rack mounting bolts in the body, align the holes on the bottom of the front rack with the holes in the body, and then replace the nuts and bolts. Once the rack and bumper are in place, tighten all bolts in this step.



4. Tail light installation

Remove the nuts from the tail light and thread the light mounting bolts and wire through the holes on its tail light mounting plate mounting plate. Secure with the removed nuts. Locate the open tail light connection on the controller and click in the light's connector.



5. Rear rack installation:

Remove the bolts from the rear rack mount located on either side of the tail light. Align the holes of the rack with the holes of the mount and replace and tighten the bolts



ASSEMBLY continued...

6. Reflector installation:

Place each of the reflectors, 2 orange for the front, and 2 red for the rear, into the reflector brackets on each rack, then secure them with the included nuts.



7. Fuse & battery connections:

Disconnect the battery, locate the fuse case on the red positive battery wire, insert one of the included fuses, secure the cap back on the case, and reconnect the battery.



8. Seat installation

Position the clip at the front of the seat under the bracket located within the body and then press firmly on the rear of the seat to snap it into place. Ensure the seat is secure.



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

COMPONENT DIAGRAM



- (a) Forward/reverse gear switch
- (b) Controller, 3-speed switch
- (c) Battery case w/ charging port
- (d) Tail light rear shock
- (e) Motor, rear brake caliper, wheels

- (f) Throttle/ignition/battery gauge (3in1), front brake handle
- (g) Rear brake handle, light & horn buttons
- (h) Headlights, bumper
- (i) Front wheels, front brake calipers

OPERATION

Basic Operation

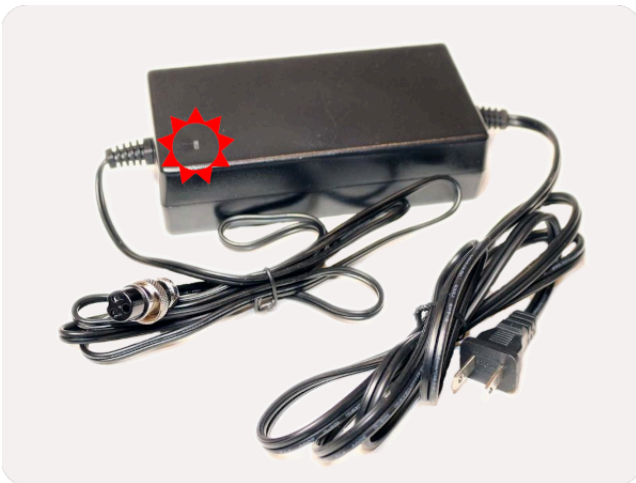
With the ATV powered on, first press down the safety pedal on the right footrest, and then gently twist the throttle until the desired speed is reached. Release the throttle and squeeze both brake levers to stop. The safety pedal when released OR brakes when engaged will automatically stop power to the motor and the quad will slow to a stop.

Charging

Step 1 - Ensure the eQuad 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.

As the charging port is integrated the battery can also be removed from the quad and charged separately. 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 eQuads 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 eQuad.

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 eQuad should be regularly examined for damage to the cord, plugs, enclosure and other parts. In the event of such damage, the eQuad 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 / Alarm & Key Fob

The eQuad X can be turned on/off using **2** different methods:

MANUALLY by placing the **key** into the ignition switch (located on the throttle assembly on the right handlebar) and turning it to the on position. Once turned on manually, the eQuad can **ONLY** be turned off by manually turning the key back to the off position.

REMOTELY via the included remote **fob**. Once the eQuad has been turned on remotely it can **ONLY** be turned off with the fob.

Remote Buttons

-  **POWER** 2x press to turn the unit **NO**
-  **UNLOCK** Press to turn the unit **OFF** and to turn the alarm off
-  **LOCK** Press to turn the unit's alarm on.
-  **SIREN** Press to activate the siren for locating a unit

Each fob requires a CR2032 battery. (pre-installed) To replace the battery remove the key ring, then carefully pry off the silver side pieces. Once removed the black fob body can be separated revealing the interior and battery slot. Once a new battery is installed, reassemble the fob in the reverse order.

Battery Level Indicator

The battery level indicator is also part of the throttle assembly. The display indicates the current battery level and is also an easy way to tell if an eQuad is turned on. When turned off, if the lights do not turn off, it may indicate that the eQuad was started with the other method of power up. (Manual keys vs Remote fob) Please see the previous section for details.

OPERATION continued...

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 key removed the eQuad is locked into that speed setting. Do not leave the key in the 3-speed switch while operating the eQuad.

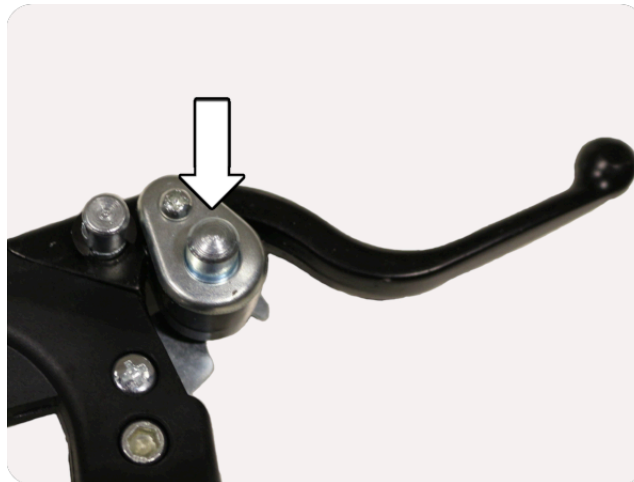
Quad X speeds by setting are: Low 4-8 km/h, Medium 12-14 km/h, High 17-21 km/h

FNR Gear Shifter

To change between **(F)**orward, **(N)**eutral and **(R)**everse, while stationary, turn the gear shift knob to the desired position. **Always bring the vehicle to a complete stop before changing gear, failing to do so will result in damage to the switch.**

Parking Brake

Locate the parking brake knob on the right brake lever. To engage the parking brake, squeeze the front brake lever and press down the parking brake knob. To disengage the parking brake squeeze the brake lever until the knob pops up.



Headlight/Horn switch

Located on the left handle bar the **green** horn button can be pressed to honk the horn. The headlight switch is the **red** button located directly beneath it and can be used to turn the headlights on and off.

Safety Pedal

As mentioned in the basic operation the eQuad X features a safety pedal to help ensure riders are seated properly when riding. The safety pedal must be pressed for the throttle to activate the motor's power. In the event the rider releases the pedal due to falling off the unit or incorrectly sitting without feet properly planted, the quad will slow to a stop. The safety pedal is a recommended but optional feature. If not desired, the pedal can be followed back to where it connects to the quads controller box and disconnected. Once disconnected the feature will be bypassed.

PRE-RIDE CHECKLIST

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

- Brakes** - Check the brakes for proper function. When squeezing each brake lever, the brake caliper should prevent movement.
- Tires** - Inspect tires for excess wear and replace as needed. 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 & 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

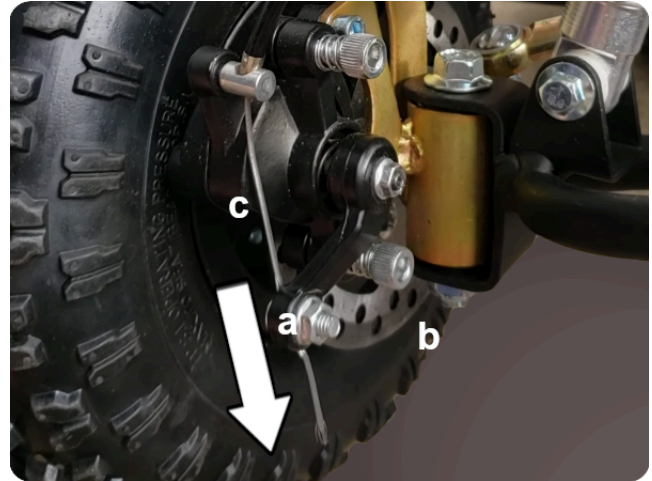
Wipe surfaces off with a damp cloth and neutral detergent. Do not clean with a pressurized source of water.

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) brake lever – tighten/loosen adjuster

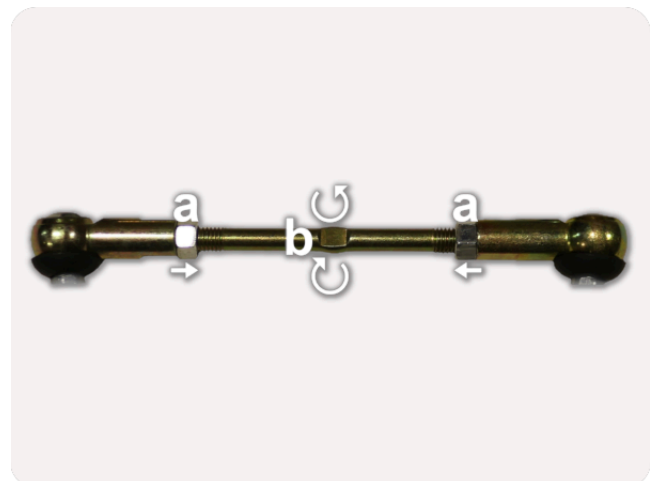
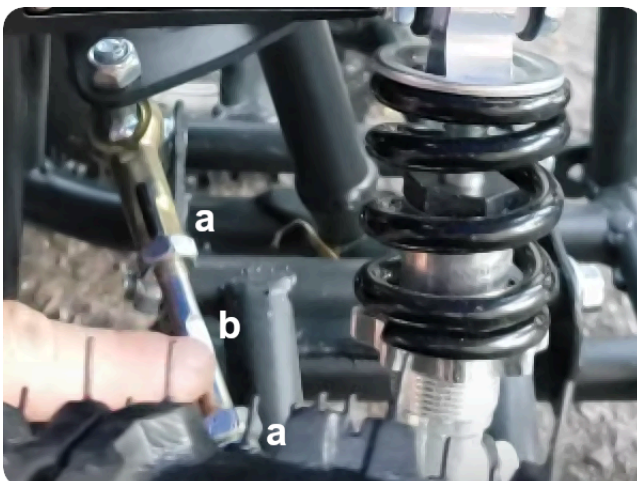
To adjust cable play on the right (front) brake lever - tighten/loosen adjuster



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). Tighten the anchor nut (a).

Wheel Alignment

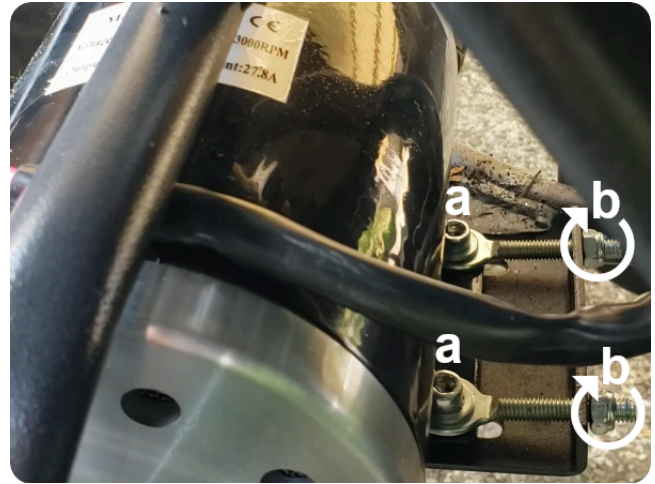
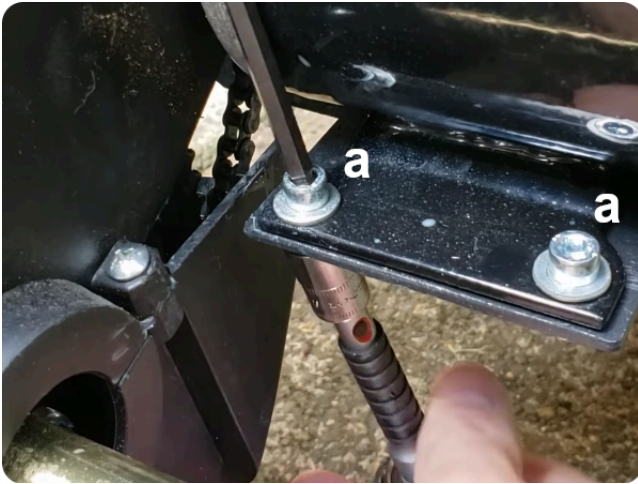
In the event that the front wheels aren't straight the wheel alignment will need to be adjusted. Start by straightening the handlebars. Locate the tie rod on the wheel to be straightened, the tie rod consists of a center rod and 2 ends. Each end is held to the center rod with a securing nut (a). Loosen the securing nuts (a) on both the tie rod ends, once both are loosened turn the center rod (b), this will turn the wheel in or out depending on the direction it's turned. Once the wheel is straight and in the correct position re-tighten the 2 securing nuts (a). This procedure is the same for both sides of the eQuad.



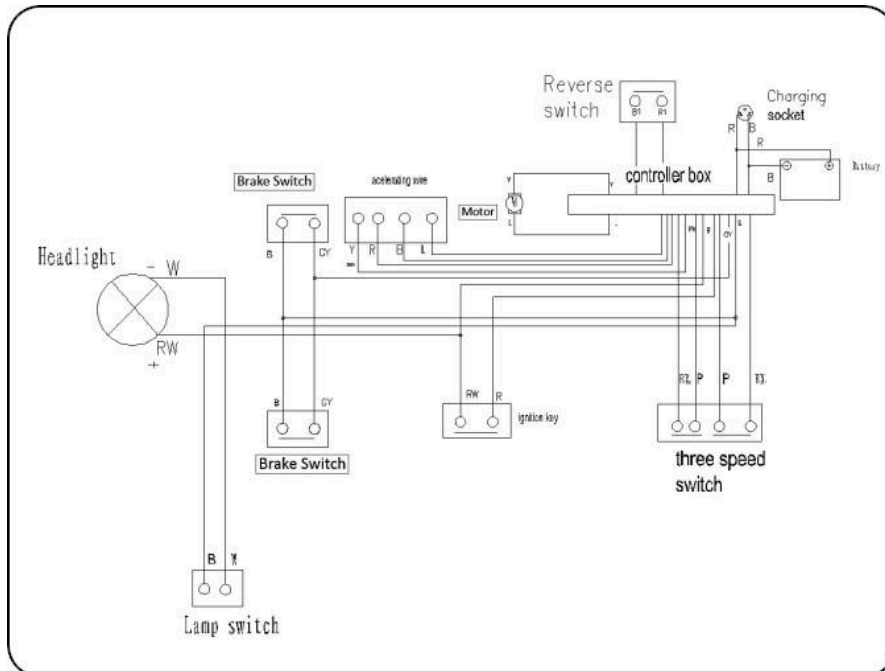
Chain

The eQuad 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 with stretching with use, it will need to be tightened. Before adjusting the chain, make sure the motor is cool. **Do not touch the motor immediately after use. The motor will be, or can be, very hot, always allow it to cool.**

To tighten the chain, first loosen, but don't remove, the four nuts(a) securing the motor to the frame. (2 in front and 2 in behind) Once loosened the tensioners located in front of the motor can be adjusted to shift the motor forward tightening the chain. One at a time, turning clockwise, tighten the nut(b) on each chain tensioner, ensuring to tighten each side an equal amount. Adjust both tensioners equally until the chain is properly snug, do not over-tighten the chain. Once adjustments are complete retighten the 4 nuts(a) previously loosened. Now is also a great time to lubricate the chain.



Wiring Diagram



TROUBLESHOOTING

Problem	Possible Cause	Solution
Power does not turn on	Fuse not installed/burnt out	Replace fuse
	eQuad is turned off	Turn main switch on / activate with remote fob
	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
	Safety pedal not pressed	Ensure rider is pressing pedal
	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
eQuad not charging	No power at the outlet	Check power to the outlet
	Charger damaged (no lights)	Replace charger
	Battery damaged	Refer to pg 10 for battery care

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

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 **eQuad 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.

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