



X-Treme™ Electric Scooters

XG-470

Gas Scooter

Owner's Manual

Revised 10/10/2009



PLEASE BE SAFE WHEN RIDING

ALWAYS WEAR A HELMET AND OBEY ALL LAWS!



IMPORTANT



THIS IS A 2-CYCLE ENGINE

IT REQUIRES A MIXTURE OF GAS AND 2-STROKE ENGINE OIL

1. You **must** always use a gas/oil mixture. FAILURE TO DO SO WILL VOID YOUR WARRANTY!
2. Use 32:1 Gas/Oil Mixture. 4 oz. of oil for every gallon of High-Octane gasoline.
3. Tanaka Perfect Mix, or similar quality 2-Cycle Engine Oil is recommended. Oil can be purchased from your local X-Treme Dealer, Outdoor Power Equipment Dealer, or a Power Sports Dealer
4. High-Octane Fuel recommended. (90 octane or higher)

**Failure to follow these INSTRUCTIONS will
VOID YOUR WARRANTY!**

**This PRODUCT IS NOT INTENDED FOR EXTREME or
OFF-ROAD Use! Please take care of your XG-470!**

DO NOT JUMP or ABUSE THIS PRODUCT!

DO NOT RIDE IN WET/ICY CONDITIONS!

**Failure to follow these instructions will
VOID YOUR WARRANTY!**

If you have any questions, please contact X-Treme customer

service on the web at **www.x-tremescooters.com**

IMPORTANT

PLEASE READ THIS BEFORE USING THIS PRODUCT

READ THIS FIRST!

WARNING

This product does not conform to Federal Motor Vehicle Standards and is not intended for operation on public streets, roads or highways. Serious injury can result from the unsafe operations of this product. Operator can minimize these risks by using certain safety equipment such as: safety helmet, goggles, gloves, elbow and kneepads and appropriate footwear.

DO NOT operate this product in traffic, on wet, frozen, oily or unpaved surfaces or under the influence of drugs and/or alcohol. Avoid uneven surfaces, potholes, surface cracks and obstacles.

DO NOT use a water hose to clean this product. See Product Handbook for more information.

This product is recommended for riders 16 YEARS OF AGE and older.

SAFETY

- Persons without excellent vision, balance, coordination, reflex, muscle and bone strength and good decision-making capabilities should not use this product.
- Minors without adult supervision should not use this product.
- Persons unwilling or unable to take responsibility for their own actions should not use this product.
- The user of this product assumes ALL risks associated with its use. To minimize these RISKS, the user must wear safety helmet, goggles, gloves, elbow and kneepads and appropriate footwear.
- Never start the engine inside a closed room or building. Breathing exhaust fumes can be fatal.

QUICK REFERENCE SAFETY GUIDE

Fuel Safety

- Mix and pour fuel outdoors away from sparks or flames.
- Only use a container approved for fuel
- Do not smoke or allow smoking near the X-Treme XG-470 while working on the engine, or while the engine is running.
- Wipe up and clean all fuel spills before starting the engine.
- Move at least 10 feet away from where you fueled before starting engine.
- Stop engine before removing the fuel cap.
- It is recommended that you empty the fuel tank prior to shipping or storage to prevent fuel leaks.
- Do not store your X-Treme XG-470 near open flames, furnaces, electric motors or switches.

Maintenance

- Maintain your X-Treme XG-470 as recommended in this Product Handbook.
- Disconnect the spark plug cap before performing any engine maintenance, except for carburetor adjustments.
- Keep others away while making carburetor adjustments.
- Use only quality replacement parts as recommended by the manufacturer.

Transportation and Storage

- Allow the engine to cool, empty the fuel tank before transportation or storage.
- It is recommended that you empty the fuel tank prior to shipping or storage to prevent fuel leaks.
- Clean the X-Treme XG-470 carefully and store in a cool, dry place.

Product Safety

- Keep hands and feet away from moving parts.
- Inspect the entire product prior to each use. Replace damaged parts. Check for fuel leaks and make sure all fasteners are in place and securely fastened.
- Replace all parts that are cracked, chipped or damaged before use.
- Use only parts and accessories that are recommended by the manufacturer.

**If a situation arises that is not covered in the manual,
proceed with caution and use good judgment.**

**Contact your dealer or X-Treme (www.x-tremescooters.com/support/)
if you need further assistance**

TABLE OF CONTENTS

IMPORTANT INFORMATION.....	2
QUICK REFERENCE.....	4
TABLE OF CONTENTS.....	5
GETTING TO KNOW YOUR X-TREME XG-470.....	6
PACKING CONTENTS.....	7
GETTING STARTED.....	7
ASSEMBLY.....	7
GAS TANK INSTALLATION.....	8
FUELING.....	9
RIDING/BRAKING.....	9
TRANSPORTING AND STORAGE.....	9
OPERATING PROCEDURES.....	10
STARTING.....	10
MAINTENANCE.....	10
RECOMMENDED TOOLS.....	10
CARBURETOR ADJUSTMENT.....	10
BRAKE SYSTEM.....	12
TIRES AND WHEELS.....	14
ADJUSTING THE HEAD UNIT.....	14
ADJUSTING THE CHAIN.....	14
MAINTENANCE SCHEDULE.....	15
OTHER QUESTIONS.....	16
GENERAL INFORMATION/TECH SUPPORT.....	16

GETTING TO KNOW YOUR X-TREME XG-470



The image shows a blue and black X-TREME XG-470 gas-powered scooter. It has a large fuel tank, a black seat, and a kickstand. The scooter is shown from a side profile, facing left. The front wheel is larger than the rear wheel. The handlebars are black with a blue grip. The deck is blue with black text. The engine is located between the wheels. The scooter is shown with its kickstand down.

X-TREME
scooters

X-TREME™ XG-470
GAS POWERED SCOOTER

FEATURES

- 2 Stroke 49cc Gasoline Engine
- Electric Start & Back Up Pull Starter
- 30 MPH Top Speed*
- 20+ Miles Per Tank*
- Trunkbox Equipped
- Adjustable Seat
- Variable Speed Twist Throttle
- Front & Rear Brakes
- EPA Certified Engine
- 10" Aluminum Mag Wheels
- Dual Magneto/External Charging System
- Smart Charger & Tool Kit Included
- 6 Month X-Treme Warranty, 1 Yr Engine
- 1 Year Battery Warranty

* Depends on Rider Weight and Terrain

PACKAGE CONTENTS

Your X-Treme XG-470 comes with the following items in the box. Please locate all of the following:

1. The X-Treme XG-470 Gas Scooter
2. Trunk & Trunk Rack & Mounting Hardware
3. Battery Charger
4. Fuel Tank and lines
5. Tool Kit
6. Gas/Oil Mixing Bottle
7. 10Amp Fuse
8. Handlebar Clamp
9. User Manual

GETTING STARTED



Please read and understand these instructions and the **OPERATING PROCEDURES** section, prior to starting or riding your XG-470



Fig. 1

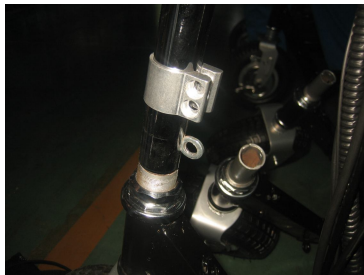


Fig. 2



Fig.3

Assembly

1. Carefully remove the XG-470 from the box.
2. Locate the Handlebar Clamp. (Fig. 1) Slide the clamp up onto the T-handlebar.
3. Insert the T-handlebar onto the front fork.
4. Line up the handlebar on the fork and Insert the metal key into the back of the t-handlebar, then slide the clamp down over the key and secure the two bolts on the clamp until tight.



Fig. 4



Fig. 5



Fig. 6



Fig. 6a



Fig. 7



Fig. 7a

5. Install the enclosed Rear Fender bolts to secure the fender to the frame. There will be one for the rear of the fender, and two for the front.
6. Next, install the fuel tank and fuel lines. (Fig. 5) First run the fuel lines from the right side of the scooter under the fender to the left side of the scooter to the engine and locate the carburetor. Connect the clear line (return fuel line) to the carburetor attaching it to L-shaped smooth nipple. Attach the black line (feed fuel line) to the carburetor attaching it to the ribbed nipple. (Fig. 6)
7. Next mount the fuel tank to the scooter frame using the two enclosed bolts. (Fig. 6a) Disregard the top-mounting bracket on the fuel tank, as it is not necessary for this model of scooter.
8. Seat and Seat post mounting. Locate the upper and lower seat posts as shown. (Fig. 7) Attach the upper seat post (short post) to the seat and tighten the seat-mounting bracket. (Fig. 7a)
9. Using one of the two enclosed seat post clamps, slide the clamp over the seat post receiver, then insert the lower seat post. Tighten clamp as necessary.
10. Slide the second seat post clamp over the lower seat post and insert the upper seat post with seat attached. Adjust the seat to the desired height, and tighten the clamp. (Fig. 8)
11. Attach the trunk rack to the seat post at the desired height. Tighten the nuts/bolts. Next, attach the trunk to the rack using the enclosed rubber washers and nuts/bolts.



Fig. 8

Fueling

This is a two-stroke engine.

Only run the engine using a mixture of gasoline and 2-cycle engine oil.

PLEASE READ OPERATING PROCEDURES BEFORE FUELING!

1. Mix fuel (minimum 90 octane) and 2-cycle engine oil in separate container. Use Tanaka Perfect Mix or a quality 32:1 2-cycle oil. Make sure the fuel is well mixed by shaking the container
2. Make sure that the engine is off!
3. Slowly open the GAS CAP, so that possible over-pressure disappears.
4. Clean the tank cap area to make sure that it is free from excess dirt and debris.
5. *Make sure that no dirt falls into the gas tank.
6. Pour pre-mixed Gas/Oil mixture into the GAS TANK. *Do not overfill.
7. After fueling, replace the GAS CAP and tighten.

Riding

1. Make sure that all of the exposed bolts and screws are tightened.
2. Raise the kickstand to its upright position.
3. Make sure the engine is running.
4. Put one foot on the deck of the XG-470 while pushing off with the other foot, gently rotate the THROTTLE GRIP, on the right side of the handlebars. The XG-470 will begin to move on its own power.
5. Control your speed by rotating the accelerator grip. The more you rotate, the faster you will go.

Braking

1. To brake, release the THROTTLE GRIP and depress the BRAKE LEVERS (on the left/right side of the handlebars)
2. Gradually decrease the engine speed to idle and press the kill switch button located just to the left of the throttle grip. This will turn the engine OFF.

TRANSPORTING/STORAGE

Your XG-470 is easily disassembled for compact storage or transporting by removing the lower handlebar clamp and pulling the handlebar out of the front fork, then removing the seat post from the scooter.

OPERATING PROCEDURES

Starting

- Push the primer bulb 3-5 times to ensure gas is reaching the carburetor.
- Set the CHOKE LEVER to the CLOSED (UP) position.
- Pull the recoil starter handle briskly, making sure to keep the handle in your grasp, and not allowing it to snap back.
- Once the engine is running, move the CHOKE LEVER to the RUN (DOWN) position.

Note!

At this stage, if the engine does not start, repeat the starting procedure.

- After starting the engine, allow the engine 2-3 minutes to warm up prior to riding.

Stopping

- Gradually decrease the engine speed to an idle speed and press the stop switch on the handlebar tube.

MAINTENANCE

RECOMMENDED TOOLS

To adjust and service the X-Treme XG-470 you will need the following tools:

- Allen Wrenches: 3/4/5/6 mm
- Wrenches: 10/13 mm Open end wrench
- Large Adjustable Crescent Wrench
- Spark Plug Sockets
- Philips Head Screwdrivers
- Oil, Grease or Lubricant

CARBURETOR ADJUSTMENT



WARNING!

Never start the engine without the complete clutch cover assembled! Otherwise the clutch can come loose and cause personal injuries.

In the Carburetor, fuel is mixed with air. When the engine is tested at the factory, the Carburetor is basically adjusted. Further adjustment may be required from time to time, depending on climate and altitude.

The Carburetor has two possible adjustments:

1. Idle speed adjustment

2. Air/Fuel Mixture adjustments



Note: Standard idle RPM is about 2500-3000 RPM.

Idle Speed Adjustment

1. Start the engine.
2. Using a long Philips head screwdriver, gently turn the top screw clockwise until the XG-470 starts to move forward. (Fig. 9)
3. Then back out by turning the screw counterclockwise until the XG-470 stops.

*Correct idle speed is obtained when the engine runs smoothly just below the RPM when the XG-470 starts to move.

Air/Fuel Mixture Adjustment

1. Start the engine.
2. Using a long, standard screwdriver and while holding the throttle wide open, turn the bottom screw (with spring) clockwise as far as possible, then back out 1 & $\frac{1}{4}$ to 1 & $\frac{1}{2}$ turns until the engine runs smoothly.



WARNING!

When the engine is idling, under no circumstances should your XG-470 be moving.

If the XG-470 continues to move after idle speed adjustment, contact X-Treme or your local X-Treme service center.

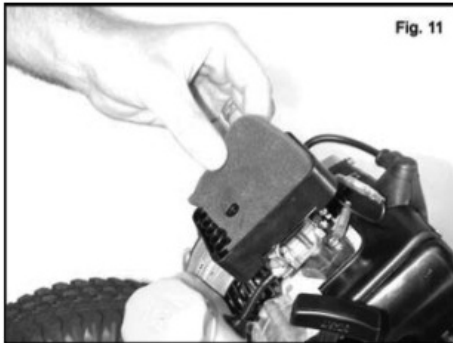
Cleaning the Air Filter

It is a good idea to occasionally clean the air filter to insure optimum performance.



To clean the air filter:

1. Using a Philips head screwdriver, remove the carburetor cover by turning the cover screw counter-clockwise. (Fig.10).
2. Remove and clean the air filter (the spongy material on top of the air intake), with a damp rag. (Fig.11).
3. Put the air filter back into its original position and replace the cover.



BRAKING SYSTEM

The XG-470 uses both front wheel and rear wheel Hub Brake systems activated by hand levers (on either side of the handlebar). Squeezing the BRAKE LEVER with your left hand activates the rear brake, and squeezing the BRAKE LEVER with your right hand activates the front brake. Make sure to release the THROTTLE GRIP when engaging the brakes.

Practice braking on a smooth, dry surface to get used to the feel of the braking system. Braking distance is affected by wet conditions and loose and uneven riding surfaces.

Adjusting the Brakes.

The Brakes on the XG-470 should come fully adjusted from the factory. However, it may be necessary to adjust the brakes from time to time.



Fig. 12



Fig. 13

To adjust the brakes::

For brakes that are adjusted too tight:

1. Loosen the tension screw on the left hand brake lever by rotating it counter-clockwise until the wheel spins freely. (Fig. 12)

For brakes that are adjusted too loose:

1. Tighten the tension screw on the left hand brake lever by rotating it clockwise until the wheel has a slight drag. (Fig. 12)

For further adjustment, locate the adjustment screw on the rear brake hub located on the rear wheel.

For brakes that are adjusted too tight:

1. Loosen the tension screw on the rear brake hub by rotating it clockwise until the wheel spins freely. (Fig. 13)

For brakes that are adjusted too loose:

Tighten the tension screw on the rear brake hub by rotating it counter-clockwise until the wheel has a slight drag. (Fig. 13)

Squeaky Brakes

The brakes may squeak until they are broken in. This is normal and will not affect the function or performance of the brakes. With continued use the squeak should go away.

TIRE AND WHEELS

Tire Pressure

The tire must be inflated to a maximum of 50 P.S.I. It is also recommended to use a tube additive like **Slime** purchasable from any motorcycle shop, to avoid inconvenient punctures.

ADJUSTING THE HEAD UNIT

The head unit should come adjusted from the factory. However, riding on rough terrain and general use may cause the head unit to become loose over time. It may be necessary to adjust the head unit from time to time.



To adjust the head unit:

1. Rotate the handle bar to expose the HEAD UNIT.
2. Using a large adjustable wrench, gently turn the BEARING LOCK clockwise to tighten. *DO NOT OVER TIGHTEN OR IT WILL DAMAGE THE BEARINGS.

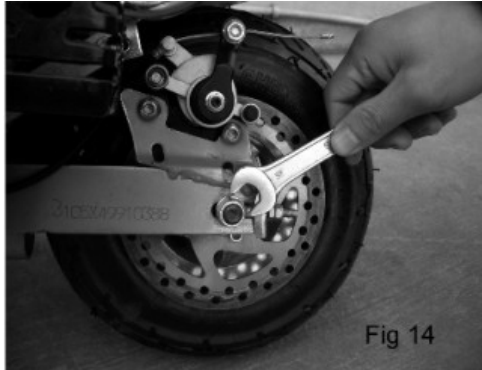
ADJUSTING THE CHAIN

The chain will come adjusted from the factory. However, it may be necessary to adjust the sprockets from time to time. The chain must be well aligned onto the sprockets in order to avoid uneven wear. This will result in shortened chain life.

How tight should the chain be?

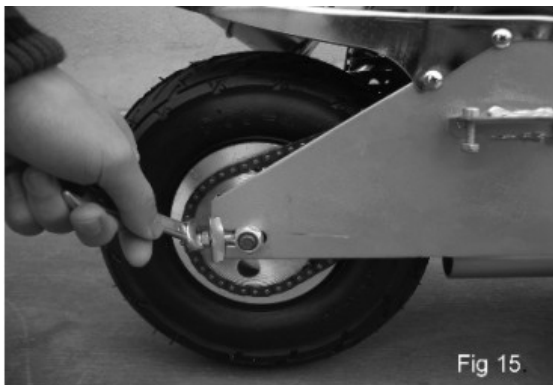
- If the chain is skipping or jumping on the sprockets, this is too loose and may be harmful.

- If the chain is making a humming sound when the wheel is turning, this is too tight and may cause the chain to snap.
- The correct tension is achieved by adjusting the chain from its loose position to when it becomes lightly tense.



To tighten the chains:

Slightly loosen the two axle bolts on both sides of the rear wheel. (Fig.14). Then slowly adjust the two adjusting screws on each side of the rear tire (Fig.15) until chain reaches the proper tension. (Photos vary)



Occasionally rotate the rear wheel to make sure chain is aligned. Finally, lock and tighten the rear axle bolts prior to riding. (Photos vary)

MAINTENANCE SCHEDULE

Proper care of your X-Treme XG-470 will insure optimal performance and longer life span. The following are a few maintenance suggestions that will keep your X-Treme XG-470 running in top condition:

Daily Maintenance

Perform each time you ride your XG-470

- Clean the exterior of the unit with a soft, damp rag.
- Check that all nuts and bolts are securely tightened.

Weekly/Monthly Maintenance

- Check the pull starter, especially the cord and return spring.
- Remove the spark plug and check the electrode gap. Adjust it to

- 0.6mm, or change the spark plug.
- Clean the cooling fins on the cylinder head and check that the air intake at the starter is not clogged.
- Clean the air filter.

OTHER QUESTIONS

For additional questions, service instructions, further information and important phone numbers, please go to the X-Treme website at www.x-tremescooters.com

Thank you for purchasing an X-Treme XG-470 and please tell your friends how much fun you're having on the X-Treme XG-470

**For General Information or Parts Visit
www.x-tremescooters.com
For Technical Support or Assistance Visit
www.x-tremescooters.com/support/**