



USAC STERNER BIKE

USER'S MANUAL
Revision of October 2016



WARNING: Bicycling can be a hazardous activity even under the best of circumstances. Proper maintenance of your bicycle is your responsibility as it helps reduce the risk of injury. **IMPORTANT NOTE:** In many of the subsequent warnings in the manual we mention a risk of loss of control or falling. Please understand that those events could lead to very serious injury or death. Because any loss of control or fall could result in serious injury or death, we do not repeat the warning of injury or death whenever we mention the risk of loss of control or falling.



	USAC STERNER BIKE
FRAME	HYDROFORMING
BATTERY	SAMSUNG CELL, 36V X 10.4 AH
CONTROLLER	INFRAME
MOTOR	300W, BRUSHLESS
ENGINEER	REAR
SENSOR	SPEED SENSOR
BRAKE	YLP DISC BRAKE (ALSO TAIWAN BRAND)
WHEEL	UNI-RIM
MUDGUARD	ALLOY
DISPLAY	LCD DISPLAY
SUSPENSION	NIL
THROTTLE	YES
BRAKE LEVER	WUXING, CUT-OFF BRAKE LEVER
E-RANGE *	25 MILES
PAS RANGE *	40 MILES
MAX SPEED *	15 MPH
WEIGHT	35 LB (NOT INCLUDING BATTERY)
MAX LOAD	< 250 LB
WARRANTED	BATTERY:1 YEAR MOTOR:2 YEAR OTHER ELECTRIC COMPONENTS ARE 2YEAR: SUCH AS CONTROLLER, DISPLAY, BRAKE LEVER,ETC

*** ALL RANGE AND SPEED ARE SUBJECT TO ROAD CONDITION.**



Safety

We really do not want you to get hurt, so please follow these safety rules:

- Wear an ANSI / Snell-approved helmet at all times to help prevent head injuries.
- Always wear shoes that will stay on your feet and will grip the pedals. Never ride barefoot or while wearing sandals.
- Observe all traffic laws and signals, just as automobiles must do.
- Don't ride double or attempt stunts.
- Ride near the curb or in the bicycle lane in the same direction as traffic.
- Find alternate routes, rather than ride through busy intersections and heavy or high-speed traffic.
- Walk -- don't ride -- your bicycle across busy intersections and turn corners.
- Avoid riding in wet weather. When wet, brakes may require a long distance to stop.
- Avoid loose clothing or long coats that can catch in pedals or wheels. Leg clips or bands keep pants legs from tangling in the chain.
- Avoid crossing raised sewer grates or railroad tracks.
- Use proper hand signals when turning or stopping.
- Be alert at all times, especially for cars pulling out into traffic and for opening doors.
- Inspect your bicycle before every ride. Make sure all fasteners are securely tightened.
- Verify that your front and rear brakes are functioning properly before each ride.
- Verify that all QR "quick release" levers on your bicycle are fully tightened and in the closed position.
- Maintain adequate tire pressure.
- Never hitch a ride on another vehicle.

If you must ride in the dark:

- Ensure the reflectors on the bicycle are unobstructed and clean.
- Always use an appropriate front and rear lighting system when riding at night.
- Ride with extreme caution. Be alert for cars, pedestrians, runners and other bicyclists. Ride defensively and watch for road hazards.
- Wear light-colored clothing and use reflective tape on clothing or helmets.

Slippery Conditions

When rims and brakes are wet due to muddy, wet, or icy roads the distance needed to stop safely increases. You must anticipate the additional distance needed to stop in such circumstances. Reduce your speed and take corners slowly and carefully. Hard application of the front brake on wet or icy pavement (or on loose gravel or debris) can cause the front wheel to lock and skid, resulting in possible loss of control. Slowly apply brakes in a gradual, controlled manner to avoid skidding or loss of control.



WARNING: Many states require specific safety devices. It is your responsibility to comply with the appropriate state and local laws.



WARNING: Always wear an ANSI or SNELL approved helmet when riding your bike. Always keep the chin strap securely buckled. Refer to your helmet owner's manual for additional information. Failure to wear an approved helmet may result in serious injury or death.



WARNING: Reflectors alone are not adequate for night visibility. Use a high quality lighting system for greater visibility.



WARNING: Wet or icy conditions dramatically increase the risks of falling and losing control. When wet or icy conditions are present braking distances are dramatically increased. Avoid wet or icy conditions.



WARNING: Avoid riding over curbs. Watch for and avoid potholes, gratings and other road hazards. Walk your bicycle over railroad tracks, stairs, ditches or other such rough conditions. Failure to do so may result in tire failure, loss of control, or other mechanical failures and may result in a serious or fatal accident.



WARNING: Do not remove the reflectors from your bicycle. They are an integral part of the bicycle's safety system. Removing the reflectors may reduce your visibility to others using the roadway. Being struck by other vehicles often results in serious injury or death. Remember: reflectors are not a substitute for lights. Always equip your bicycle with all state and locally mandated lights.



WARNING: Riding at dusk, after dark, or at times of poor visibility is much more dangerous than riding in full daylight, even with proper safety equipment, and increases the risk of serious injury or death.



WARNING: Failure to properly tighten a QR (quick-release) lever may compromise steering action and control of the bicycle, which could cause you to fall. Falling can cause serious injury or even death. Verify that all QR levers are closed tight.

Maintenance

There is almost nothing unique about the care and maintenance of your USAC STERNER relative to that of any high-quality bicycle. We highly recommend the informative website of Sheldon Brown for general matters of bicycle care and maintenance:

<http://www.sheldonbrown.com/articles.html>



WARNING: Many bicycle service and repair tasks require special skills, knowledge, and tools. Do not begin any service or maintenance tasks on your bicycle if you have any concerns about your ability to complete them correctly. Improper adjustment or service may result in damage to the bicycle and/or in an accident which could cause serious injury or death.

Maintenance Check List

In order to keep your USAC STERNER in top condition you should run a thorough maintenance check frequently. This will ensure a longer component life and will maintain the riding ease of your USAC STERNER.

General inspection should be done before each ride as follows:

1. Check for loose nuts and bolts.
2. Check for fork and frame damage.
3. Inspect brake pads for wear and replace when necessary.
4. Check for proper brake alignment.
5. Check for any worn or damaged parts and replace.
6. Look for loose spokes on the wheels. Check tires for glass, thorns or any other sharp objects.
7. Check that all quick-release levers are securely fastened.
8. Make sure both wheels are properly aligned.
9. Keep the dérailleur in adjustment. Do not let the bike rest or fall on the dérailleur.
10. Keep tires inflated to pressure indicated on the tire wall.

Finish protection and maintenance

A damp cloth may be used to clean your bike. Avoid using aggressive cleaning solutions or solvents. Plain water, or dish soap and water work well.

The aluminum and steel used in your USAC STERNER is resistant to corrosion in most conditions; however, certain extreme environments such as ocean-side locations may cause oxidizing. We recommend either maintaining a coat of wax or periodic polishing with a non-abrasive pad (e.g., typical plastic dish cleaning pad).

Prolonged exposure to ultraviolet light will cause a color shift in anodized surfaces. We recommend storing your USAC STERNER away from direct sunlight.

Pinch Points Safety

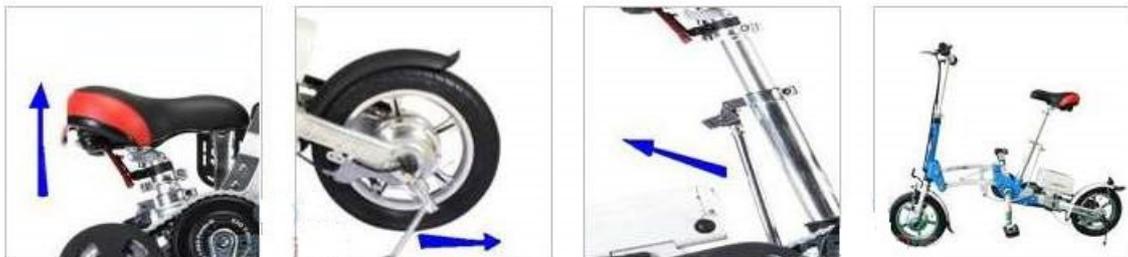
	
	<p>Pinch Point. Keep hands and fingers clear.</p>

1 Second Folding and Unfolding

Folding



Unfolding



Initial Assembly

Your USAC STERNER has either been setup at the factory or should have been done by your dealer. All major components should be adjusted and functioning properly. Initial assembly should take about 10 minutes. This section is geared more towards those that have purchased the STERNER directly from the USAC WORLD factory as we presume your dealer has assembled the bicycle for you.



WARNING: The brakes and dérailleur may have come out of adjustment during shipping. You should ensure that the brakes and dérailleur are adjusted and functioning properly before riding your STERNER. Improper adjustment may result in damage to the bicycle and/or in an accident which could cause serious injury or death.

In the small box that came with your STERNER you should find the pedals, riser, front wheel QR lever/skewer, 2 reflectors and screws, spare cable ties, and a 5mm hex wrench which will be used during the initial assembly.

After removing the STERNER from the shipping box, carefully remove all packing material and cut the cable ties used to secure the STERNER during shipping. Unfold the STERNER and place it on a flat, level surface.

Seat Post Installation

Loosen both seat post QR levers. Slide the seat post into the frame. Tighten both QR levers. To verify that a clamp is tight, release the other clamp and check that the seat can not be easily twisted relative to the frame.

Fitting Your USAC STERNER

The USAC STERNER is built to accommodate most adult body sizes. There is only one frame size. If you purchased your bicycle directly from USAC WORLD INC it was fit to your basic body size at the factory. If you purchased your bicycle from a dealer, it should have been fit to your body size by the dealer.

If you acquired your USAC STERNER bicycle second hand or wish to fit it to another person, note that most body sizes can be accommodated by a change to the stem. A trained bicycle mechanic can provide you with a variety of choices and properly fit the stem.



WARNING: If your bicycle does not fit properly, you may lose control and fall. If your bicycle was not fit to your size by USAC WORLD INC or your dealer, make sure that you verify fit with a professional bicycle mechanic.

The only adjustment you should need to make is the extension of your seat post, and possibly the position of the saddle on the seat post. Most people find that the seat height is comfortable when the top of the seat is level with the outer edge of your hip bone when you are standing next to the bicycle. With experience you may learn that you prefer the seat a bit higher or lower than your hip bone and can quickly adjust the height when you unfold your bicycle.

Seat height is adjusted by loosening the QR levers that retain the seat post. Once you have adjusted the seat post extension, be sure to tighten these two levers.

	<p>WARNING: If your seat post is retracted beyond the minimum insertion mark, the seat post or frame may break, which could cause you to lose control and fall. The minimum insertion point is stamped onto the seat from the bottom. If your seat post is not long enough contact USAC WORLD, or your dealer, for a longer seat post.</p>
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Most people prefer that the top of the saddle is horizontal, however some prefer it to tilt down slightly. You may wish to adjust the position of the saddle on the seat post to fit your personal preference. You do this by loosening the single bolt under the saddle with a 6mm hex key. Once this bolt is loose you should be able to rotate the saddle and slide it fore/aft to provide the best comfort. Once you have adjusted the seat position, be sure to tighten this bolt.

	<p>WARNING: After saddle adjustment, be sure to tighten the saddle clamp bolt before riding. A loose saddle clamp could cause you to lose control and fall. When the saddle clamp bolt is tight, the saddle should not move at all.</p>
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There are many different saddle designs, some for racing, some for comfort, some for light weight. Your USAC STERNER is equipped with a relatively common saddle. However, you may wish to exchange it at a bicycle shop for a different design to meet personal preferences.

There is little handlebar height adjustment on the USAC STERNER. The standard height fits most people. Especially tall riders may wish to replace the standard stem with a longer one. Shorter riders may wish to replace the standard stem with a shorter one. A trained bicycle mechanic can provide you with a variety of choices and properly fit the stem. It is also possible for your dealer to fit especially short riders by cutting a little bit from the riser. (Of course this is an irreversible action, so be sure you wish to do this before cutting metal.)

Seat Post

The seat post is designed specifically for the STERNER and is an integral part of the overall frame structure. Use of a different seat post may result in substantially shortened frame life and will void your frame warranty. Seat posts approved for use with your frame are available from USAC WORLD's website or your dealer.

Please ensure that both seat post QR levers are tight. To verify that a clamp is tight, release the other clamp and check that the seat can not be easily twisted relative to the frame.

A minimum insertion point is stamped onto the seat post. The seat post must be inserted to at least this point. If your seat post is not long enough contact USAC WORLD, or your dealer, for a longer seat post.

Braking

Your bike is equipped with front and rear brakes. The right brake lever is for the rear brake. The left brake lever is for the front brake. Generally you should apply both brake levers gradually to stop.



WARNING: Sudden or excessive application of the front brake may pitch the rider over the handlebars, causing serious injury or death.



WARNING: In wet weather conditions, you will need to increase the distance needed to stop safely. Anticipate the extra distance you will need, ride slowly and carefully. Squeeze your brake levers slowly and with gradual pressure to avoid skidding or loss of control. The same caution should be observed on loose gravel or dirt. Failure to be cautious during wet or other severe road conditions may result in a serious accident.



WARNING: Worn-out brake pads can result in a lack of braking function. A lack of braking could cause you to lose control or fall. Falls can result in serious injury or even death. Check the brakes for proper function before each ride.

Lubrication

Lubricate these components with a bicycle lubricant such as Finish Line:

1. drive chain
2. dérailleur cable
3. brake cables
4. seat post
5. inside of riser

Brakes

The end of the brake lever should not hit the handlebar, even when pulling as hard as possible. As the cable stretches and the brake pad wears, adjust the cable length by rotating the “barrel adjuster” on the brake lever (the aluminum piece between the end of the black cable housing and the brake lever).



WARNING: Do not ride your USAC STERNER until both front and rear brakes have been checked and are functioning properly. Keep all nuts and bolts on brakes, and brake levers, well tightened. Lubricate cables occasionally to prevent binding. Failure to do so may cause brakes to malfunction, resulting in a serious or fatal accident.

The front brake lever is mounted on the left side of the handlebar. The rear brake lever is mounted on the right side of the handlebar.

Brakes require occasional adjustment due to cable stretch and brake shoe wear. The brake lever should have very little free play and should start closing the calipers as soon as lever action begins.

1. Loosen the locknut on the adjusting barrel.
2. Turn the cable adjusting barrel to loosen or tighten.
3. Be sure that the brake pads do not touch the tire rim when the brake levers are not being applied. The right and left pads should pull away from the sides of the rim equally when the brake levers are released. If not, see Brake Balancing in the next section.
4. If the barrel adjustment was not sufficient, additional adjustments will be necessary. USAC WORLD INC strongly recommends that a professional bicycle mechanic service your brakes if you have any doubts about brake adjustments.
5. Tighten the locknut securely after any adjustments have been made.

General Tire and Wheel Maintenance

1. Maintain tire pressure at the value indicated on the sidewall of the tire.
2. Never ride your bicycle with under-inflated tires as this will cause poor handling, excessive tire wear or a blowout.
3. Use a hand pump to inflate tire to proper tire pressure.
4. Over inflation or an improperly mounted tire may cause blowouts.
5. If there are any irregular noises from wheels, or if the rims wobble while rotating, check and repair wheels immediately.
6. Wheels should be checked regularly for spoke tightness, especially if ridden on rough roads. If the wheel does not remain “true” this indicates that the spokes are loose. We recommend that spoke adjustments be performed by a professional bicycle mechanic.

Collisions

Your USAC STERNER bike is designed to withstand years of normal riding. However, collisions can substantially weaken the structure of the bicycle. If you accidentally have a minor collision with a curb, wall, or other fixed object, inspect the scooter for loose or bent parts. If you find such parts, contact your dealer or USAC WORLD INC for repair or replacement. If you collide with a fixed object at speeds in excess of 10 mph (16 kph) and/or are thrown from the bike after a collision, you could severely damage the structure of the bike. In such cases, please contact USAC WORLD INC for repair or replacement.

www.usacworld.com

USAC WORLD Limited Warranty

Your satisfaction is very important to us. We warrant that your USAC WORLD bike is free of defects in materials or manufacturing for a period of one (1) year from the date of purchase, subject to the limitations indicated below. If at any time within one year of your purchase, you discover a defect in materials or manufacturing, please contact us or your authorized dealer for repair or replacement.

Battery: 1 year

Motor: 2 year

Other electric components: 2 year: such as controller, display, brake lever.

This warranty is void if the bicycle was not purchased new from us or an authorized dealer.

This warranty does not apply to normal wear and tear, including wear of tires, brake pads, and cables.

This limited warranty does not apply to paint/finish or components attached to the bicycle such as front forks, wheels, drivetrain, brakes, seatpost, handlebar and stem (all of which are covered under the one year limited warranty above).

Damage caused by stunt riding, off-road riding, racing, collisions, or other abusive treatment is not covered by this warranty. This is a consumer warranty and does not apply to products used in rental operations.

Contact Information - USAC WORLD INC

www.usacworld.com - for replacement part orders, accessories, and additional maintenance instructions.

info@usacworld.com - for technical support and info.

Mail: 222 Old Country Rd. 2nd FL
Mineola, NY 11501

E-mail: info@usacworld.com

Web: www.usacworld.com