

Trike - X Suspension By Performer

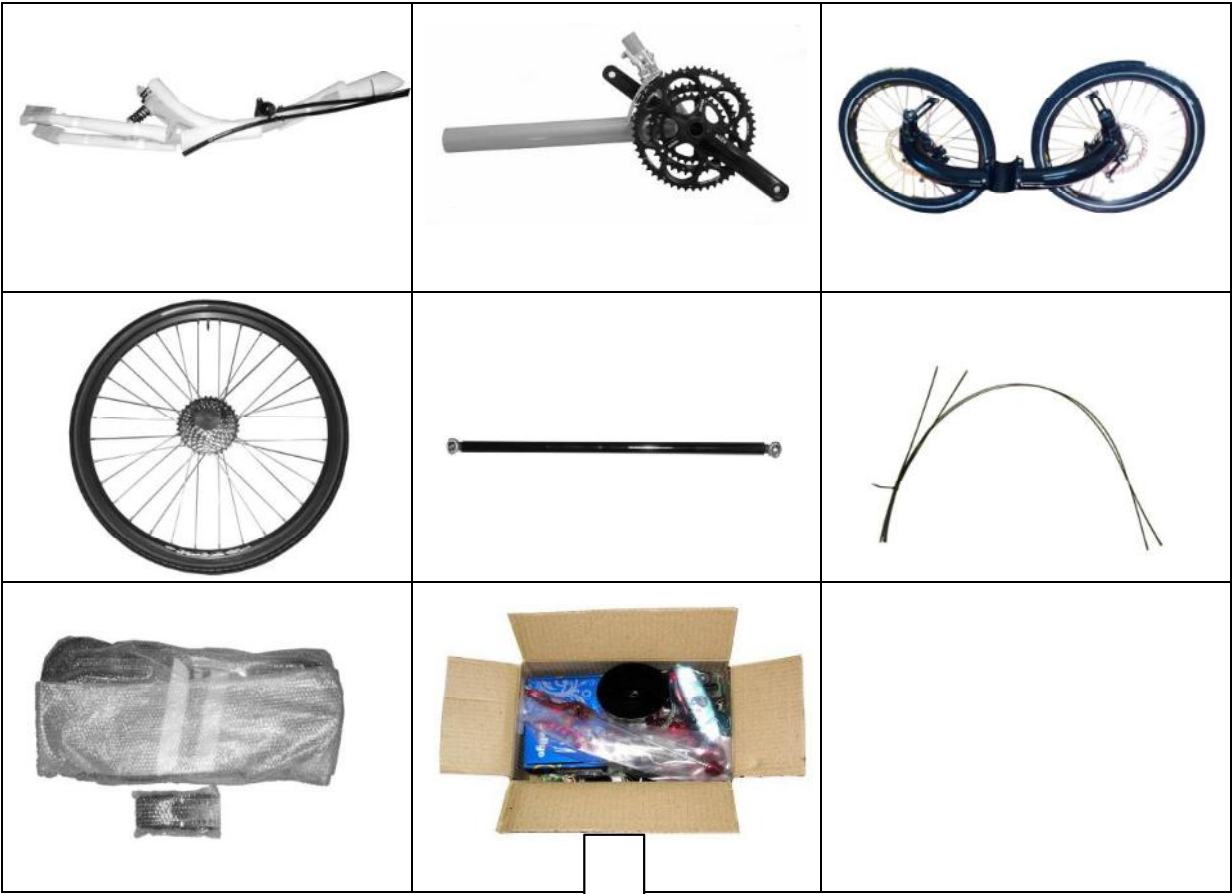


Congratulations on your purchase of the Trike-X Suspension trike by Performer! Performer trikes are made to enhance comfort and to fit your various touring, shopping and socializing needs.

When you receive your trike, please make sure all parts referred to in the instructions have been included. Your new trike has been 50% assembled. To complete assembly, please refer to this assembly guide for more details on individual steps. Damage from not following assembly instructions are not covered under our Limited Warranty.



Included Trike-X parts













Quick release	Cable housing	Pedal	Rubber
			
Reflector	Tool	Chain	Brake wire
			
Shifter wire	Rear derailleur		
			



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Assembly guide

Frame and wheels

1. Place the frame on the outrigger tubes. (Pic 1)
2. Attach the four boom bolts. (Do not tighten yet)
3. Attach the rear fender in the middle of the rear fork. (Pic 2)
4. Attach the rear wheel by rotating the rear wheel quick release. (Pic 3)
5. Attach included washer on the rear fork and install rear derailleur. (Pic 4)
6. To adjust the rear derailleur, press the derailleur leg inwards. The leg should be parallel to the largest gear. (Pic 5) If it is not parallel, see page 6 for instructions on adjusting the rear derailleur.
7. Attach the fender holder on the rear drop out. (Pic 6)

Pic 1



Pic 2



Pic 3



Pic 4



Pic 5



Pic 6



Insert boom

Insert the boom into the main frame with the front gear vertical to the ground and the front derailleur on top. The boom may need to be adjusted for the rider, so do not tighten the four boom bolts on the frame yet.

Frame alignment

- 1.** You will need to determine if the rear wheel is vertical to the ground and the two front wheels are parallel to each other. (Pic 7)
- 2.** If the rear wheel is not properly vertically aligned, you will need to adjust the four boom bolts on both sides of the frame. Loosening the two bolts on the right and tightening the two bolts on the left will shift the top of the wheel towards the left. To shift the top of the wheel to the right, reverse the procedure.

Pic 7



- 3.** Attach the tie rod to the underside of the hub mount. (Pic 8)
- 4.** To determine if the front wheels are parallel, measure the distances between the front tires at the leading edges (Pic 9) and the trailing edges. (Pic 10)
- 5.** Rotate the tie rod to equalize the two measurements in the previous step.
- 6.** Tighten the two tie rod locking nuts. (Pic 11)

Pic 8



Pic 9



Pic 10



Pic 11



Brake and shifter cables

The cables may be routed according to individual preference, but it is important to avoid sharp bends. Cable guides are found on the front boom, rear chain stay and under the frame. The grip shifter has already been installed on the handlebar with the cable already threaded. The bar-end shifter has a small hole for the shifter wire to be threaded into before routing.

Shifter cables

Rear derailleur

1. Slide the shifter wire into the shifter cable housing.
2. Route the shifter cable housing along the tie rod. Make sure that there is enough slack to fully turn the wheels. (Pic 12)
3. Continue under the seat bracket and into the rear fork cable guide. (Pic 13)
4. Thread the cable wire into the rear derailleur and then attach and crimp a wire cap onto the wire. (Pic 14)

Pic 12



Pic 13



Pic 14



Front derailleur

The front derailleur wire should be installed similarly. If necessary, make sure that there is enough slack for the boom to be extended for taller riders.



Deraillieur adjustment

Adjusting the deraillieur is easier if the rear wheel can be elevated and allowed to spin freely.

1. While cranking, check to see if the chain will shift to the largest and smallest gear in the rear cassette. Adjustments are made by tightening and loosening the screws marked L and H on the rear deraillieur.

Warning: If the chain can be shifted either too high or too low, the chain may derail while riding and cause injury.

2. If the chain will not reach the largest gear in the rear cassette, loosen the L screw until it is lined up properly. If it goes too far, tighten the L screw.
3. Do the same for the smallest gear, adjusting the H screw similarly.

Pedals

1. Grease the threads on the pedals and screw the right hand pedal into the right side of the crank (from the perspective of a seated rider) and rotate clockwise.
2. Screw the left hand pedal into the other side of the crank and rotate counterclockwise.
3. Make sure the pedals are tightly screwed in.

Warning: Performer strongly recommends the use of a clipless pedal system, not included, to reduce leg fatigue and to prevent feet from slipping off the pedals. Read more about "clipless" pedals in the safety section below.



Brake cables

Front brake cable (Right hand side)

1. Squeeze the right hand brake lever until the brake lever receiver is exposed.
2. Place the large end of the brake cable into the brake lever receiver.
3. Thread brake cable into the brake cable housing. (Pic 15)
4. The brake cable housing may be routed to the right hand break according to your preferences, avoiding sharp bends. Attach the brake cable to the right brake and crimp the cable cap onto the end. (Pic 16)
5. Attach the brake and shifter cable housings with a zip tie to the tie rod (Pic 17) with enough slack to fully turn the handlebars.
6. Repeat this procedure for the left hand side.

Pic 15



Pic 16



Pic 17



Brake adjustment

When the brake levers are released, the wheels should spin freely without drag. When depressed, brake pads should firmly engage the brake disks. Use the pad adjustment knobs to align the pads properly.

Warning: Each of the brakes on the trike work independently from one another. All riders must be aware that care must be taken to apply the brakes evenly. Failure to do so may cause the trike to spin and possibly cause injury.

Seat

Once you have found your preferred riding position, install the seat onto the seat bracket. Tightly lock the seat clamp and headrest.

Warning Make sure that the seat bolts are fully tightened. Failure to do so may cause damage to the seat bracket and/or the seat.

Rear Rack

1. Bolt the rear rack onto bracket. (Pic 18)
2. Tighten the bolts on both sides of the rear rack. (Pic 19)
3. Tighten the bottom bolt. (Pic 20)

Pic 18



Pic 19



Pic 20



Boom adjustment and chain routing

Sit on the seat in your preferred riding position and press against a pedal to determine the proper length. (Pic 21) The boom may be slid in or out to ensure a proper fit. This length is known as your X-seam. Make sure that the boom is vertical and not tilted to either the right or left, then fully tighten the frame bolts onto the boom.

Pic 21



1. Pass the chain through the front derailleur and into the upper chain tube. (Pic 22)
2. Route the chain under the hub located under the seat. (Pic 23)
3. Route the chain over the rear gears and down through the rear derailleur. (Pic 24)
4. Finally, slide the chain through the lower tube.

Pic 22



Pic 23



Pic 24



Chain length

1. The position of the rear derailleur will indicate if the chain is too short or too long. Begin by shifting to the smallest gears in front and back.
2. At the proper length, the chain should have a small gap between itself and the rear derailleur. (Pic 25)

Pic 25



3. If the derailleur cage is sitting high enough that the chain rubs itself, the chain is too long.
4. If the chain is too long, remove enough links from the chain to reach the proper length. If the chain is too short, links will need to be added.
5. Your chain uses a master link (also known as a quick-release link) to join the chain together once the length is correct.

Front fenders

1. Remove the screws from the fender bracket. (Pic 26)
2. Align the fender holder with the bracket and attach the fender. (Pic 27)
3. Repeat the process for the other wheel.

Pic 26



Pic 27



Safety

Always wear an approved cycling helmet. You should test out any helmet with your trike to make sure it is comfortable in a recumbent position and with your headrest.

"Clipless" pedals and matching cycling shoes/cleats (not included) are highly recommended with the use of your trike. Not only are they more comfortable and allow you to relax without constantly putting pressure on the pedals, but they can also be safer. Shock and vibration from rough terrain can cause your feet to slip off the pedals. Severe injury can be caused either by the resulting loss of control, or by your feet touching the ground while moving and becoming entangled with the frame.

Inspect your trike before each ride, including brakes, tires, air pressure and that the quick releases are properly tightened.

If you are riding at night, make sure that you have road-legal front and rear lights. Use both flashing and non-flashing lights to maximize visibility.

Consider wearing bright clothes for visibility.

Use a flag. The trike is very low to the ground and might not be seen, particularly in parking areas and low speed situations.

Always take care around parked cars, drivers and passengers can open doors suddenly and without warning.

Consider getting a loud bike horn as well as a bell. In emergency situations, a loud horn can make all the difference.

Watch your speed, particularly on corners and downhill. Get used to your trikes characteristics, even though trikes are very stable, turning at high speeds can cause tipping.





Safety (continued)

Friction from using brakes can create a lot of heat so allow them to cool before touching.

Always pay attention to your path and surroundings! The Trike-X is very comfortable so don't let yourself get distracted.

Limited Warranty

WARRANTY LIMITATIONS

To the extent permitted by law, this warranty is in lieu of all other express or implied warranties. Performer disclaims all statutory and implied warranties, including without limitation, warranties of merchantability and fitness for a particular purpose, and warranties against hidden or latent defects, to the extent permitted by law. Any such warranty which cannot be disclaimed is limited to the duration and remedies of this express warranty. This warranty shall take effect on the date of original purchase.

WHO IS COVERED

This warranty is extended only to the initial purchaser and is not transferable. This warranty only covers personal use and does not extend to business or commercial use.

HOW WILL THIS WARRANTY BE FULFILLED

Performer is solely responsible fulfilling the terms of this warranty. Under this warranty, Performer will repair, replace, or refund, at our sole discretion, a defective part with the same or comparable model. Parts covered must be returned to us or to an authorized dealer for inspection at the customer's expense and must include a copy of the original receipt. The owner is responsible for all labor, shipping and travel costs connected with the repair or replacement of warranted parts.

WHAT IS COVERED AND LENGTH OF COVERAGE

Metal frames are covered for a period of five years. Carbon frames are covered for a period of three years. Forks and non-consumable parts are covered for a period of one year.

NOT LIABLE FOR DAMAGES

In no event shall Performer be liable for any direct, indirect, punitive, incidental, or consequential losses, injuries, damages or expenses to property or life, whatsoever, arising out of or connected with the use or misuse of our products.





WHAT IS NOT COVERED

Consumable parts, including but not necessarily limited to, tires, tubes, brake and shifter cables, brake shoes, grips, seat covering, crankset, gears and chain are not covered under this warranty. Also not covered are normal wear and tear, damage due to improper assembly and/or maintenance, modifications, or installation of parts or accessories not included with this trike as sold, including power assist. Damage caused by any accident, act of God, abuse, misuse, neglect or theft is not covered. This warranty does not cover paint damage, rust or cosmetic damage including dents or scratches.

YOUR RESPONSIBILITIES

The initial purchaser is responsible for inspecting this trike for proper assembly, installation, and adjustments at time of purchase, and for subsequent normal maintenance and adjustments. Performer must be notified of any claims under this warranty within the warranty periods stated above.

Thank you for being a Performer rider!

Warranty Contact

christine@performer.com.tw: For warranty assistance, please contact Performer at this email address. For faster service, attach a picture of the damage being claimed.

Dealer Information

