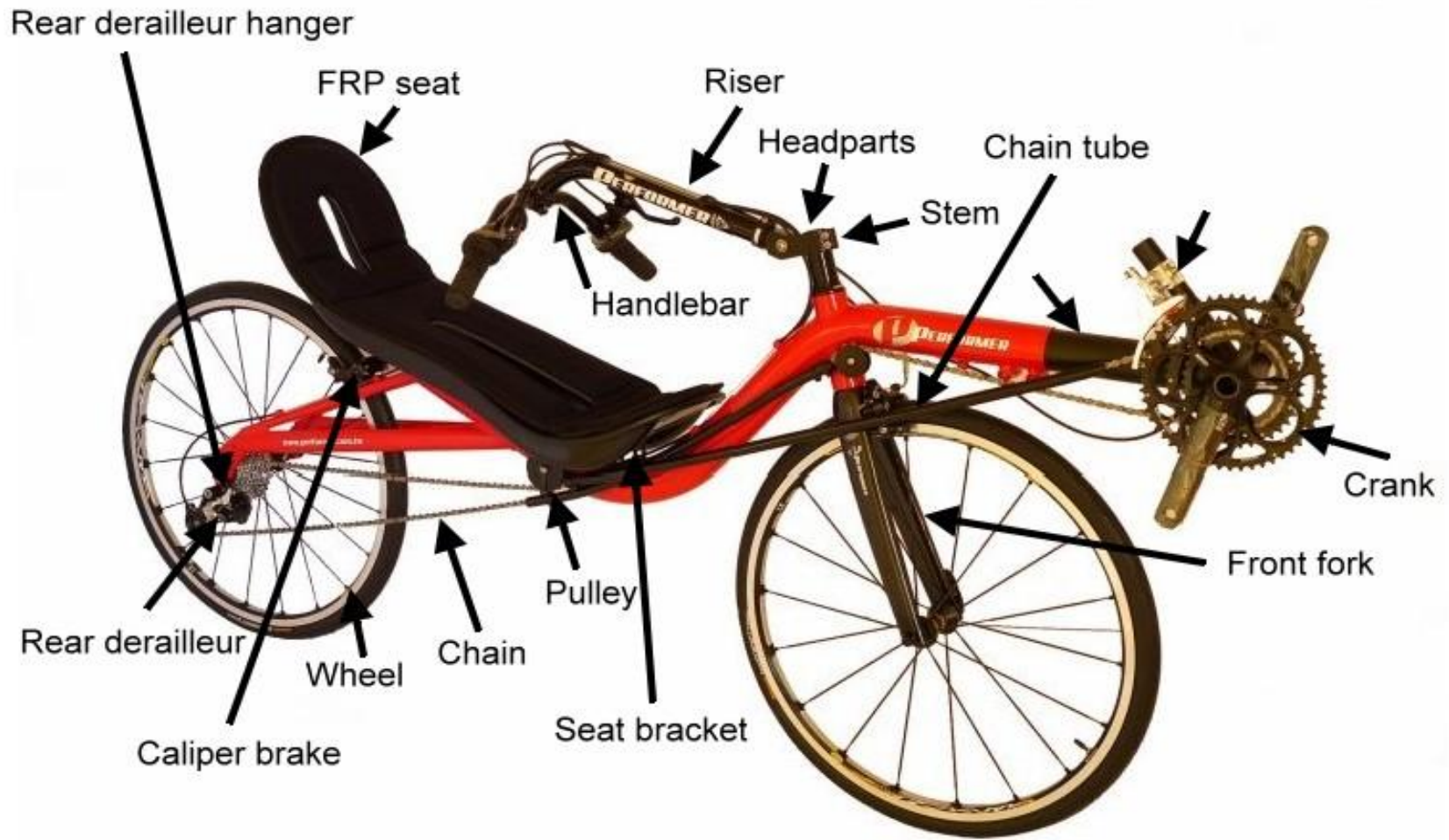


High racer

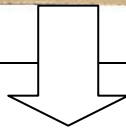
By Performer



Congratulations on your purchase of Performer High Racer. Performer High Racer are made to enhance comfort, performance and to fit your various needs on touring, shopping and communicating. Let's have fun with your Performer High Racer. When you receive your High Racer, please make sure all parts referred to in the instructions have been included. Your new High Racer has been assembly 50%. Please refer to assembly guide for more details on individual steps.



High Racer parts in the carton













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

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Assembly guide

Assembly main frame and wheels

1. Install rear derailleur (pic 1)
2. Install rear wheels on the main frame by rotating the quick release on rear wheel (pic 2)
3. Install front wheels on the main frame by rotating the quick release on front wheel (pic 3)

Note: The spare paint on the fork dropout will lead to the difficulty of installing wheel.
Please clean paint out when it happen.



Pic 1



Pic 2



Pic 3



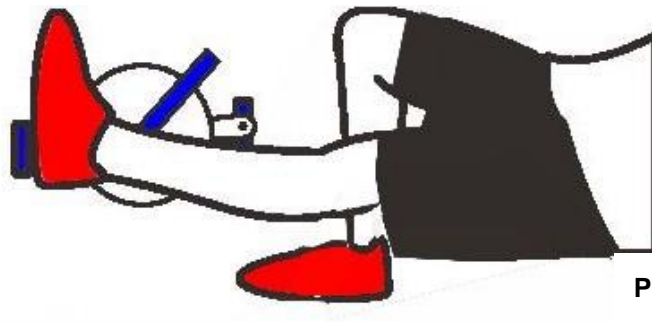
Pic 4

Routing chain

Normally, our recumbent is suitable for people with 165cm~195cm tall. As a result, we always make our front boom long enough to fit various peoples' height. Some people need to cut boom shorter to find suitable position.

Insert front boom to main frame then sit on seat and step vertically on pedal and move front boom in or out to adjust a comfortable leg length. No matter you decide to cut the boom or not, make sure the crank leg never touch the wheel when turning. If touched, that means the boom is too further in. Please move backward. When the boom can not be inserted further in frame tube and it is still far for your leg to reach pedal, you need to cut is shorter. When cutting the boom, don't forget to the reserve extra 10cm more on the boom to clamp in the frame. Once you find out a proper leg length, tighten front boom.

(pic 5)



Pic 5



1. Attaching the chain through the front derailleur cage (pic 6)
2. Run through the lower chain tube (pic 7)
3. Under big pulley and free wheel, over the sprockets and down through rear derailleur (pic 8/9)
4. Put the rest chain above small pulley and through the upper tube. Please don't cut or link the chain unless you find out the proper chain length. (pic11) (Please refer to adjust chain length)

Pic 6



Pic 7



Pic 8



Pic 9



Pic 10



Pic 11



Adjust the chain length

The proper chain length is determined by the sitting place of rear derailleur (pic 12). When the derailleur cage is sitting too high, the chain is too long (pic 13). On the other hand, the chain is too short

Pic 12



Pic 13



1. Shift onto the smallest chainring in the front and shift down to the smallest cog in the rear
2. Pull the chain taut until the rear derailleur is extended like pic 12
3. Check the sitting place of rear derailleur
4. Use the master link to hold the chain together

Install Brake and shifter cable

Install handlebar

1. Place the Riser on the stem and tighten riser clamp (pic 14)
2. Align the riser to the front wheel
3. If the stem is not align to the front wheel, please adjust stem by screwing bolts in or out
4. After alignment, tighten stem
5. Placing handlebar (pic 15)



Adjust handlebar

By adjusting stem

To adjust the angle of handlebar, push the raiser forward and turn the backstop screw in or out. The backstop screw is close to the stem axle. Turing bolt in and out to let handlebar fold further back or up. Don't turn the screw out so far which will touch the top of stem when folded back.

By spacer

If the handlebar is too high to hold after you screw in so far. Please take apart the stem first then take out spacers from fork. There are 2~4 spacers with 1cm in width. The more spacer you take off the lower handlebar is. Most riders only need to take 2 spacers off and adjust the backstop screw. Please note that the handlebar should not touch your knees while riding. Afterward, install the stem and extra spacer you took off then tighten it.



By fork

If you want to cut fork shorter, the cutting distance is based on 1cm (spacer width) and it's multiple. You can contact with your local bike shop to cut for you, if you are not familiar with doing that.

By Cutting riser

In case you are still not comfortable with handlebar position, you can cut the raiser shorter.

1. Remove shifter and brake cable
2. Remove the top cap.
3. Loosen the riser clamp.
4. Take off riser from steer tube
5. Pull out riser
6. Cut the riser to the desired length.
7. Reassemble.

After shortening fork and riser, you have to adjust the length of brake and shifter cable.



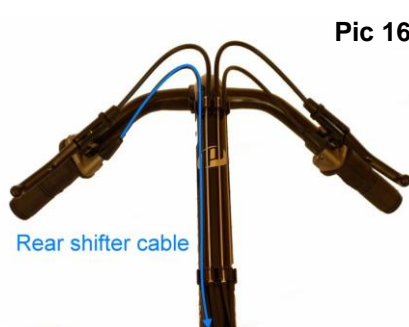
Install Brake and shifter cable

The routing way is not important, while sharp bends are avoided. Cable guides are on the front boom, rear chain stay or under the frame. Grip shifter has been installed on handlebar and been threaded shifter wire. As for bar-end shifter, please slide the shifter wire into the small hole of bar-end shifter first.

Shifter cable

Cable for rear derailleur

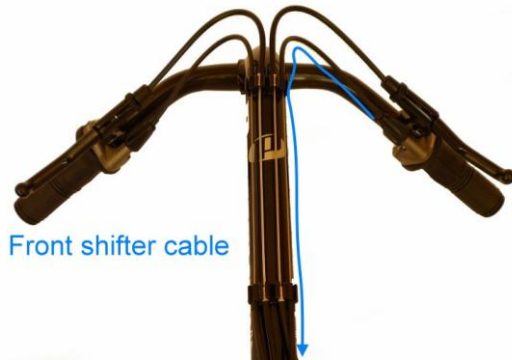
1. String shifter wire into cable
2. Tuck cable into cable guide
3. Thread shifter cable into rear derailleur, pull tightly and seal the end
4. Check the cable between the cable stop and derailleur, which shouldn't be slack



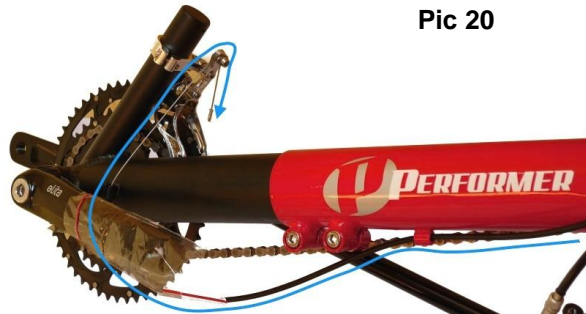
Cable for front derailleur (at left side)

Repeat the same for the other side

Pic 19



Pic 20



Adjust derailleur

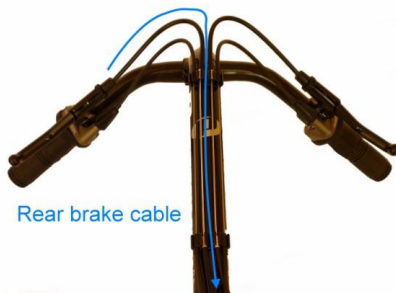
1. Check whether the chain can shift to the largest and smallest cog.
2. If doesn't work, loosen L/H on rear derailleur.
3. When rear shifter won't go to the largest cog, you need to loosen the L. When it won't shift to the smallest cog, you need to loosen the H.
4. When front shifter won't go to the largest chainring, you need to loosen the H. When it won't shift to the smallest chainring, you need to loosen the L.

Brake cable

Front brake cable (at right side):

1. Squeeze the brake lever to open it up and place the head of the cable into the lever.
2. String the brake wire into cable.
3. Tuck the cable into cable guide.
4. Thread brake cable into brake arm.
5. When the wheel starts to drag slightly, adjust the brake pad relief by using the pad adjusting knobs.

Pic 20



Pic 21



Pic 22



Front brake cable (at left side)

Repeat the same for the other side





Adjust brake

Performer recumbent is equipped with disc brake or rim brake. Please read the manual from brake manufacturer

Rim brake

Check brake pads, make sure they are aligned on the rim.

If not, turning the adjusting barrel on rim brake

Turning spring-tension adjusters to balance brake arms

Disc brake

1. Spin the wheel
2. Rotor should run freely in the center of calipers without any drag.
3. If not, turn the adjusting knob clockwise until the rotor is in the center
4. Lock the caliper bolts





Install pedal

Grease pedal and screw in right pedal clockwise and left pedal anti-clockwise. Make sure it's tight enough.

Seat

Install seat onto the seat bracket, once you find your prefer position. Lock seat clamp and headrests tightly. Please make sure the seat is completely tight, otherwise the loosed bolts on FRP seat will break the seat from the bottom after a period of time. Then, stick open cell foam on FRP seat.

Guidance for safety use

1. Inspect your Recumbent before every ride.
2. Tighten every loosening parts
3. Find comfortable seat positions and seat angles for your ride.
4. The tires should be inflated to the pressure indicated on the rim.
5. Replace your tires before they wear out.
6. Be careful to ride in wet weather conditions. Ride slower through corners to avoid skid.
7. Equipped reflectors and a front and rear light to ride at night.





Warranty

Performer Bike warrants each new recumbent against defects in workmanship and materials for the Limited Coverage Periods listed below. Under this warranty we will repair or replace a defective frame, fork or part with the same or comparable model. The decision to repair and replace is at the sole discretion of Performer. This warranty coverage extends only to the original purchaser, and is not transferable.

Limited warranty

1. Metal Frame: Five years from the date of purchase
2. Carbon Frame: Three years from the date of purchase
3. Non consumable parts and components: One year from the date of purchase
(exclude tire, brake and shifter cable, grip, crankset, cog and chain)

Does not cover

1. Normal wear and tear, improper assembly or maintenance, or installation of parts or accessories not originally intended for or incompatible with the bicycle as sold.
2. Any damage caused by crash, misuse or improper riding way and riding place.
3. If you elect to repair a defective product yourself or use the services of someone else than Performer, or if you use a replacement part not supplied by Performer, Performer will not be liable for any damage

Procedure

Please notify Performer in writing with attached picture of the frame showing damage to christine@performer.com.tw

