

Tandem

By Performer



Congratulations on your purchase of Tandem family. Performer recumbent is made to enhance performance and to fit your various needs on touring, shopping and communicating. Let's have fun with your new recumbent.

When you receive your recumbent, please make sure all parts referred to in the instructions have been included. Your new recumbent has been assembly 50%. Please refer to assembly guide for more details on individual steps.



Tandem 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. Put front and rear frame together and tighten it (pic 1)
2. Install rear derailleur (pic 2)
3. Install rear wheels on the main frame by rotating the quick release on rear wheel (pic 3)
4. Install front wheels on the main frame by rotating the quick release on front wheel (pic 4)
5. It is better to adjust rear derailleur first. Press derailleur leg inward. The leg needs to be parallel to the biggest sprocket

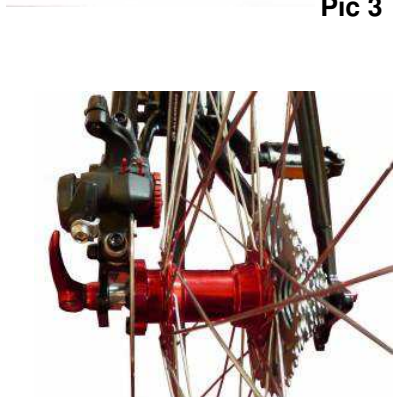
Note: The spare paint on the fork dropout will lead to the difficulty of installing wheel. Please clean paint out when it happen.



Pic 1



Pic 2



Pic 3



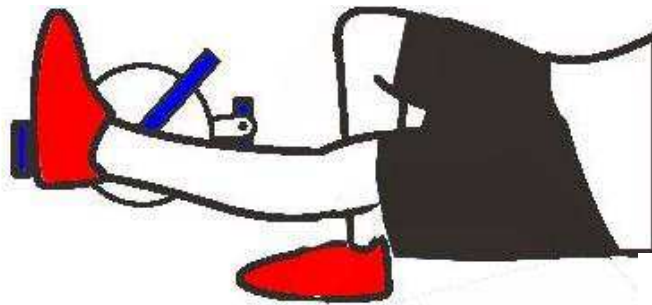
Pic 4

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. Run the chain through the front derailleur cage and over small pulley (pic 6/7)
2. Then over the sprockets and down through rear derailleur (pic 8)
3. Link the chain (refer to page 9)
4. Synchronize the front crank leg and rear crank leg (pic 9)
5. Attachment the second chain on the front chainring
6. Through the upper chain tube and above small pulley (pic 10)
7. Put the rest of chain through the lower chain tube and above small pulley (pic 10)
8. Link chain



Pic 6



Pic 7



Pic 8



Pic 9



Pic 10



Adjust the chain length

The proper chain length is determined by the sitting place of rear derailleur (pic 11). When the derailleur cage is sitting too high, the chain is too long (pic 12). On the other hand, the chain is too short

Pic 11



Pic 12



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 11
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

There are two under steering handlebar of Tandem. Please install the rear handlebar first.

1. Remove top cover from the steering
2. Place handlebar and tighten top cover (pic 12)
3. Install the front handlebar (pic 13)
4. Align the fork to the front wheel
5. After alignment, tighten stem

Pic 12



Pic 13



Adjust handlebar

Loosen the screws of the handlebar clamping and turn the handlebar to your favorite position. Most riders are comfortable with a 45° angle. Make sure the stem clamps in the middle tightly.

After handlebar adjusting, please re-thread brake and shifter cable to avoid sharp turns.



Install Brake and shifter cable

The routing way is not important, while sharp bends are avoided.

If your hand shifter is twister, it 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. Cable guides are on the front boom, rear chain stay or under the frame.

Shifter cable

Cable for rear derailleur (at right side)

1. String shifter wire into cable
2. Tuck cable into cable guide (pic13/14/15)
3. Thread shifter cable into rear derailleur, pull tightly and seal the end (pic 16)
4. Check the cable between the cable stop and derailleur, which shouldn't be slack
5. Repeat the same for the other side

Pic 13



Pic 14

Pic 15



Pic 16

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

Rear 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. (pic18)
3. Tuck the cable into cable guide. (pic 19/20)
4. Thread brake cable into brake arm.(pic 21)
5. When the wheel starts to drag slightly, adjust the brake pad relief by using the pad adjusting knobs.
6. Repeat the same for the other side

Pic 18



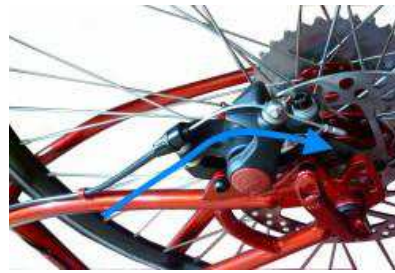
Pic 19



Pic 20



Pic 21



Adjust brake



Performer Tandem is equipped with disc brake. Please read the manual from brake manufacturer.

Disc brake

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





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

