



Step By Step  
Assembly Instructions and  
Maintenance Guide

[ SINGLE SEATER ]

## FATAL VISION® ROADSTER STEP BY STEP ASSEMBLY INSTRUCTIONS [ SINGLE SEATER ]

Scan QR code below or visit <https://vimeo.com/709244660> to review the assembly guide video.



TO REFER TO THE ASSEMBLY VIDEO USE THE TIMESTAMPS THROUGHOUT THIS GUIDE

# FATAL VISION® ROADSTER STEP BY STEP ASSEMBLY INSTRUCTIONS [ SINGLE SEATER ]

1

Unpack your Roadster. Remove the top box and lay out all pedal kart components to verify that nothing is missing from the package.

VIDEO 0:10 UNPACK THE ROADSTER



2

Unpack the hardware set located inside the plastic steering wheel bag.



## HARDWARE ASSEMBLY SET INCLUDES:

- A: 4 wheel hub caps
- B: 1 frame connection bolt assembly
- C: 2 spoiler mounting brackets
- D: 1 seat/seat frame hardware
- E: 1 steering wheel cap

## BOX CONTAINS THE FOLLOWING:

- A: 1 front assembly
- B: 1 drive wheel
- C: 1 seat
- D: 1 front spoiler
- E: 1 hardware bag
- J: 1 fender set
- F: 1 rear assembly
- G: 3 coast wheels
- H: 1 bumper frame (not shown below)
- I: 1 steering wheel



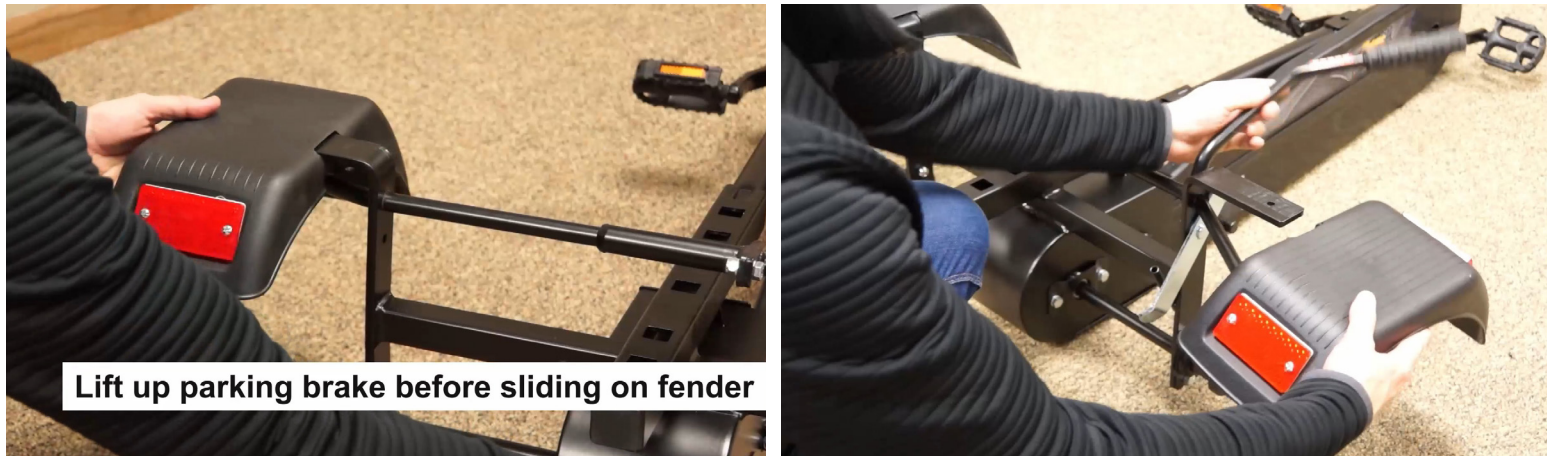
## FATAL VISION® ROADSTER STEP BY STEP ASSEMBLY INSTRUCTIONS [ SINGLE SEATER ]

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Install the rear fenders: Locate the two fenders and identify the left and right fenders by looking on the inside of the fenders and finding L for left and R for right.



Install the fenders by sliding them over the fender support bracket as shown and lightly tap them on. You may need to move the hand brake lever to install the fenders fully.



VIDEO 0:32 INSTALL THE FENDER SET

## FATAL VISION® ROADSTER STEP BY STEP ASSEMBLY INSTRUCTIONS [ SINGLE SEATER ]

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**IMPORTANT: DO NOT USE A HIGH-VOLUME AIR COMPRESSOR TO ADD AIR TO THE TIRES. ONLY USE A HAND PUMP! 28 PSI MAX**

5

Attach the Drive Wheel: The drive wheel does not have a bearing on each side like the coast wheels. Instead, there is a bushing on one side and a star pattern on the other side. Using a 17mm socket, remove the bolt and washer from the drive side of the rear axle. Slide the drive wheel over the square on the drive axle until the inside of the wheel makes contact with the stop washer. A rubber mallet may be used. Reinstall the bolt and washer and tighten using a 17 mm socket.

VIDEO 1:13 ATTACH THE REAR WHEELS



6

Attach the coast wheel: Using a 17mm socket, remove the bolt and washer from the coast side of the rear axle and the first black spacer. Slide the coast wheel on the axle with the air fill valve facing INWARD. Reinstall the bolt and washer and tighten using the 17mm socket. **IMPORTANT: Remove the first black metal spacer tube with the silver sticker. DO NOT remove the second black plastic spacer. The pedal chain drive will not work correctly without the second spacer.**



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Assemble the seat: Slide the metal seat frame into the slot on the back of the plastic seat and line up the hole on the seat frame with the hole on the seat. Insert the seat bolt (D in hardware) through the plastic seat, then attach the washer and nut on the back of the metal seat frame using a 13mm wrench or socket.

VIDEO 3:18 ASSEMBLE THE SEAT



8

Place the seat in the last seat position and stand the kart up on its end, resting on the seat back.



## FATAL VISION® ROADSTER STEP BY STEP ASSEMBLY INSTRUCTIONS [ SINGLE SEATER ]

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Remove all pre-assembled hardware: 2 bolt assemblies from the front axles (17mm socket), 1 bolt from the end of the steering shaft (13mm wrench), 1 screw from the front of the spoiler mount bracket (Philips screwdriver), and 1 bolt from the steering wheel mounting plate (13mm socket). Be careful to set and remember where each bolt belongs.

VIDEO 4:17 REMOVE ALL PRE-ASSEMBLED HARDWARE



10

Use a 17mm socket or wrench and remove the 2 existing bolts/washers by the chain drive on the rear assembly.



11

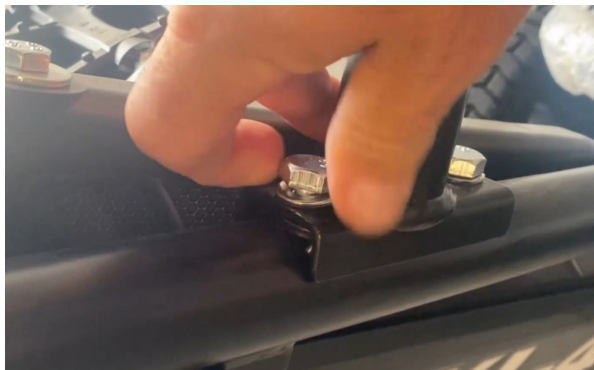
Slide the front assembly into the tube of the rear assembly.

VIDEO 5:45 ATTACH FRONT ASSEMBLY ONTO REAR ASSEMBLY



12

Use a 17mm socket or wrench to replace the 2 bolts/washers by the chain drive on the rear assembly to attach the steering column brace. Do not tighten the front bolt all the way yet. This maneuverability is needed to shift and position the steering rod next.





13

Install the end connection bolt and washer onto the end of the steering rod and tighten using a 13mm socket.



14

Install the frame connection bolt, washers, and nut assembly. (B in hardware) Tighten using 19mm wrenches/sockets. Afterward, finish tightening the bolts to secure the steering column brace.

VIDEO 7:06 INSTALL FRAME CONNECTION BOLT



15

Attach both front wheels and tighten using a 17mm socket. The air intake valve stems should face inward while attaching the wheels.

VIDEO 8:00 ATTACH FRONT WHEELS



16

Place the spoiler mounting brackets (C in hardware) on the frame metal support brackets.

VIDEO 9:34 INSTALL FRONT SPOILER



17

Place the spoiler on the frame, and replace the Philips head screw through the hole at the bottom of the spoiler into the metal tab on the kart. **Do not tighten all the way yet.**

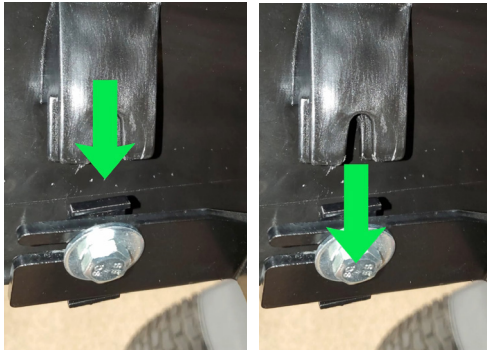
VIDEO 9:34 INSTALL FRONT SPOILER



18

Position the plastic slots on the spoiler, so they slide over the metal clips. As shown, this should trap the bolt in the 'U-shaped' plastic slot gap.

The inside plastic slot must fit between the washer and the frame metal support bracket. Tighten the bolts using a 13mm socket/wrench, so the spoiler stays securely. Be careful not to crack the plastic by over-tightening. Finish tightening the Philips head screw in front to secure the spoiler.



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Slide the steering wheel over the triangular plate, and reattach the bolt and washer using the 13mm socket/wrench.

VIDEO 12:29 ATTACH STEERING WHEEL



20

Gently tap on the steering wheel cap (E in hardware).



21

Gently tap on the wheel hub caps (A in hardware).

VIDEO 13:24 ATTACH WHEEL CAPS



22

Remove the seat from the kart, and prepare to install the rear bumper frame. Remove the existing hardware using a 13mm socket/wrench and an Allen/hex wrench.

VIDEO 14:14 INSTALL REAR BUMPER FRAME



Slide the rear bumper frame metal tabs onto the square frame of the kart.



Replace the hardware with an Allen/hex wrench and a 13mm socket/wrench.



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Replace the seat, and the Roadster is ready for use.



## FATAL VISION® ROADSTER MAINTENANCE [ SINGLE SEATER ]

Fatal Vision® Roadster by Prime Pedal Karts are designed and built to stand up to the most demanding use. But just like a car or truck, routine maintenance is required to keep your pedal kart performing for many years of use.

Item	Frequency for Inspection/Maintenance
Wheels and Tires	Before Every Event (28psi)
Inspect for Loose Nuts, Bolts and Pedals	Before Every Event
Front Chain	20 hours*
Rear Chain	40 hours*
Check Crank Bolts Tightness	40 hours
Check Steering Adjustment	40 hours
Inspect Transmission	80 hours
Grease Front Axles and Steering Shaft	80 hours

\*The front and rear chains will stretch when they are first used. Check front and rear chain after the first 8-hour break-in period.

Please Note: Periodic maintenance must be performed on your pedal kart to keep it in safe and good working order. The items listed here are some common components that will need periodic adjustment or replacement. This maintenance guide is not meant to be a complete overhaul manual. If you have any questions, please contact Prime Pedal Kart. Current replacement parts for your model can be found at their website [primekarts.com](http://primekarts.com) or call toll-free (866) 475-0450.

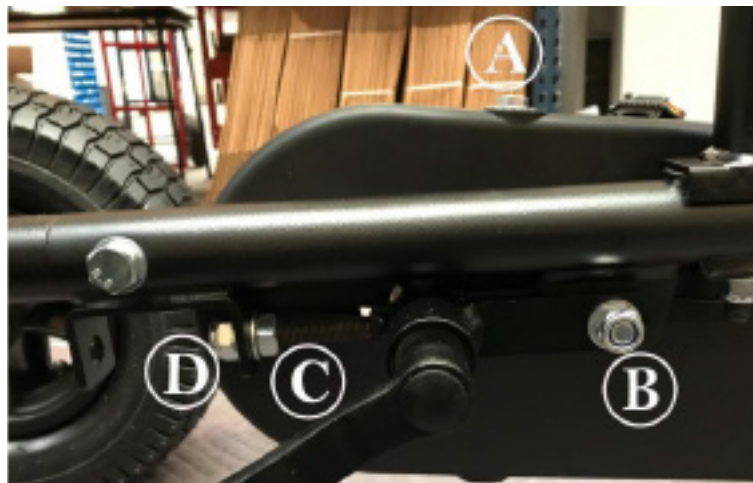
1

## Front Drive Chain Adjustment and Maintenance

The chain on your Pedal Kart is heavy-duty and used on professional BMX-type bicycles and has a high tensile strength for rugged use.

However, like all chains, they will stretch with use over time. They must be checked for proper adjustment. To check the front chain, remove bolt (A) and lift the top chain guard. There should be about 1/2" travel by pushing on the center of the chain. If the chain is too tight, the transmission and drive components will wear out quickly, and the kart will be hard to pedal. See the maintenance table on page 15.

To adjust the front chain, loosen bolt (B) and nut (C). To tighten the chain, turn nut (D) clockwise to tighten the chain. Turn counter-clockwise to loosen. After the proper chain tension is set, re-tighten (B) and (C) parts for your model. It can be found at our website [primekarts.com](http://primekarts.com).



2

## Rear Drive Chain Adjustment and Maintenance

Remove the top and bottom chainguard and loosen the front chain as described in the previous step. Next, take off the rear transmission cover by removing the three bolts.

Next, loosen the nuts on the outside of the transmission cover and slide the transmission forward to tighten the rear chain. The chain should have about 1/4" up and down movement in the center. When the chain is set at the desired tension, re-tighten the outside nuts on the transmission. The rear chain should be checked after the first 8-hour break-in period.

NOTE: After the rear chain has been adjusted, the front chain will also need an adjustment (refer back to the previous step to adjust)





3

### Crank Bolts Adjustment

Using a 14mm socket, check that the crank bolts are tight. Be careful not to over tighten. Check the bolts after every 4 hours of use. to make sure they have not come loose.



4

### Tire and Wheel Maintenance

The wheels are made out of a robust and flexible elastomer that allows it to flex if there is impact, unlike a metal rim that will dent and be damaged slightly. If you notice any cracks in the edge, it's time to replace it. The wheels on Pedal Karts are universal for the coast wheels and drive wheel. If the wheel bearings become damaged, replace them as soon as possible. **IMPORTANT: DO NOT use a high-volume air compressor to add air to the tires. ONLY use a hand pump! 28 psi MAX**

**Underinflation of the tires will make the kart difficult to pedal and possibly damage the wheel.**

**DO NOT EXCEED 28 PSI.** Please note that low tire pressure can also cause an issue by putting stress on the inner tubes, especially when applying the brakes to the rear tires. Tires should be checked before every event.

If tires become worn or damaged, replace them immediately.

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## Front Axles and Steering Column Maintenance

Grease the steering wheel column and both front axle zurk fittings every 80 hours of use. Wipe off the excess grease after you have greased the axle.

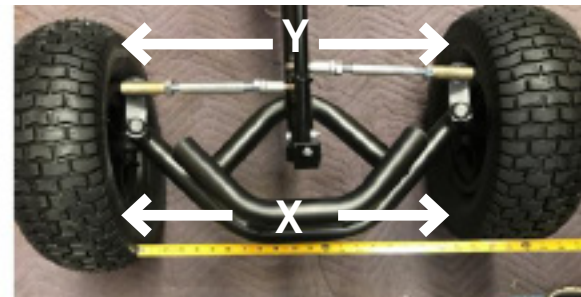
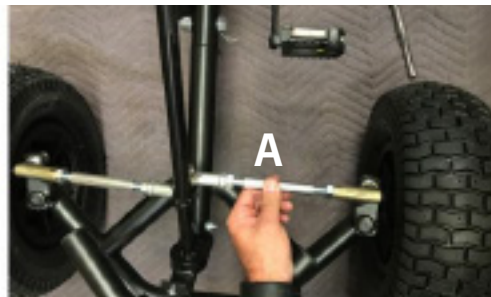
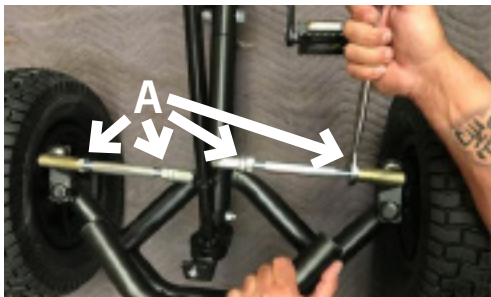


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## Steering Adjustment

If the front wheels are hit hard during impact, it is possible for the front end of the pedal kart to go out of alignment. The signs of this are excessive or uneven wear on the front tires. To adjust the front wheels, first make sure the steering wheel is centered, then loosen all 4 jam nuts (A) on the tie rods. Next, turn the center of each tie rod to move the front wheels closer together, or further apart.

The dimensions from inside front tire to inside front tire (X) should measure the same as the inside back tire to inside back tire (Y). Make sure to retighten all 4 jam nuts.



7

### **Coaster Brake/Transmission Maintenance**

The mounting nuts need to be checked for tightness 80 hours of use. If they loosen up, damage to the transmission may occur. See Maintenance # 2 for chain adjustment. There are no user serviceable parts with the coaster brake so if the part becomes worn or damaged, replace it with a new coaster brake transmission.

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### **Steel Frame Maintenance**

The frame of the pedal kart is made from strong heavy wall steel tubing and is protected with durable powder coat paint. If the paint coating becomes damaged exposing the bare steel, touch up the area with any type of close match spray paint to keep the frame from rusting.

## OTHER HELPFUL MAINTENANCE VIDEOS

### CHAIN DRIVE TROUBLESHOOTING

Scan QR code below or visit  
<https://vimeo.com/709636047>  
to review the chain drive  
troubleshooting video.



### REPLACING THE TIRE INNER TUBE

Scan QR code below or visit  
<https://vimeo.com/709637752> to  
review the replacing the tire inner  
tube video.

