

# Schwinn Shuffle conversion to an E-Cruiser Deluxe

Class II E-bike conversion 36V and 750w



If you have a Schwinn Shuffle Adult Kick Bike and want to take it to the next level “E-Cruiser Deluxe” that does 20MPH, here is the basic items I used to do my conversion. The Schwinn Shuffle was available thru [www.amazon.com](http://www.amazon.com) and on [www.eBay.com](http://www.eBay.com). I put the hub motor in the rear so the bike would not be front heavy or have a heavy steering feeling.

\*\*\* There are many ways to do this conversion and a lot of other parts that will work, this is just the way I did it and it worked.\*\*\*

Parts you will need:

**Electric Hub:** I went with this kit, it is a front 20” wheel with 100mm dropouts so it would slip right into the rear of the Kick Bike. 750 watt’s 36 Volts. The only parts I used out of this kit was the wheel, brake levers with electrical cutouts, the spiral wire wrap and cut the 9 pin julet connector and cable off the speed controller (for use on the new speed controller). I tossed the speed controller and ugly bulky thumb throttle. Price on this kit varies due to tariffs and availability, generally around the \$165-\$215 range. eBay: search for “20” front e-bike kit” or “36v e-bike kit”

20" 36V 750W Electric Bicycle Front Wheel Tire Hub Motor Conversion Kit e-Bike

1 viewed per hour ★★★★★ 4 product ratings

Condition: New

Quantity: 1 2 available  
100 sold / See feedback

Price: US \$187.90  
\$395.90 (52% off)

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2-year protection plan from SquareTrade - \$18.99

Free delivery in 4 days 100 sold More than 97% sold

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Item location: La Puente, California, United States  
Ships to: United States, Canada, Mexico | See exclusions

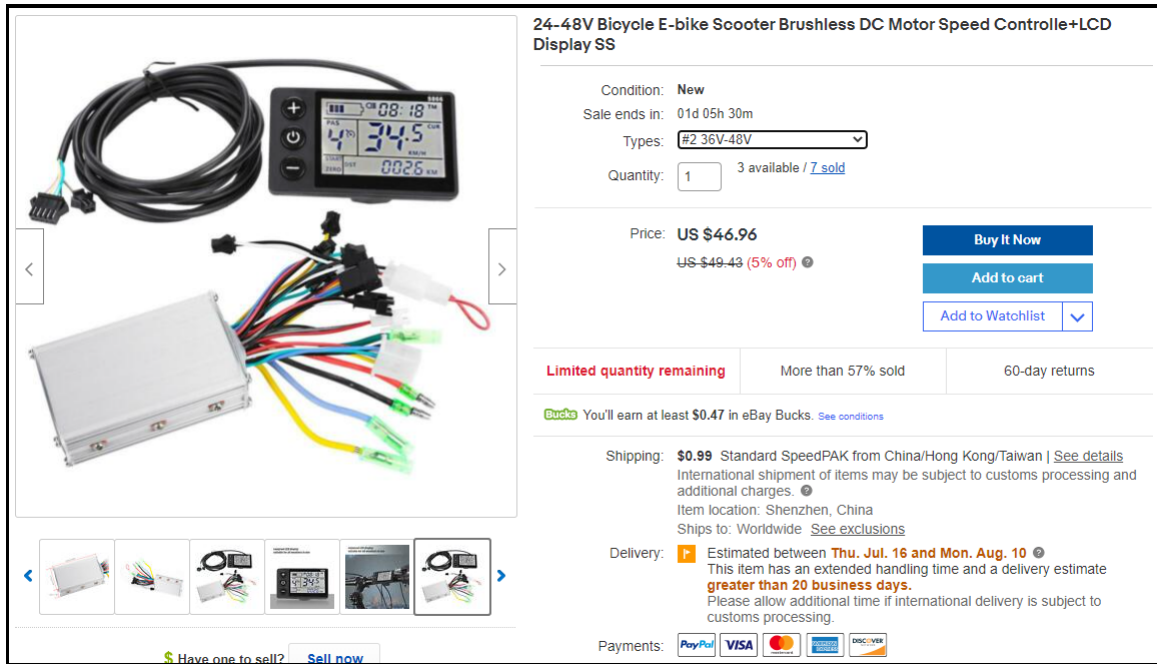
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**Speed Controller:** I went with a different speed controller (36V/48V capacity) that worked well with the size of battery I ended up using. And the new speed controller has a 13 Amp max draw, so  $36v \times 13A = 468$  watts of power. The speed controller also has a L.E.D. display that I could “change gears” with. It has 5 selections for power to the motor and comes with cruise control. I am able to get up to speed, cruise control kicks in and I can ride hand free down the road. Also I purchased a bike bag to put the speed controller in to protect it from the elements.



24-48V Bicycle E-bike Scooter Brushless DC Motor Speed Controller+LCD Display SS

Condition: **New**  
Sale ends in: 01d 05h 30m  
Types: #2 36V-48V  
Quantity: 1 (3 available / 7 sold)

Price: **US \$46.96**  
~~US \$49.43 (5% off)~~

[Buy It Now](#)  
[Add to cart](#)  
[Add to Watchlist](#)

**Limited quantity remaining** | More than 57% sold | 60-day returns

**Bucks** You'll earn at least \$0.47 in eBay Bucks. [See conditions](#)

Shipping: **\$0.99** Standard SpeedPAK from China/Hong Kong/Taiwan | [See details](#)  
International shipment of items may be subject to customs processing and additional charges.  
Item location: Shenzhen, China  
Ships to: Worldwide [See exclusions](#)

Delivery: **Estimated between Thu, Jul. 16 and Mon, Aug. 10**  
This item has an extended handling time and a delivery estimate **greater than 20 business days**.  
Please allow additional time if international delivery is subject to customs processing.

Payments: [PayPal](#) [VISA](#) [MasterCard](#) [Discover](#) [AMERICAN EXPRESS](#)

**Thumb Throttle:** I went with a plain three wire thumb throttle like the two pictured below. I was trying to keep the look of the conversion simple. They both work and are under \$10 each.



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**Battery:** This was the hardest part to come up with. I did not want the conversion to look like an afterthought by putting one of those ugly battery packs on the downtube that gets in your way and makes the bike more top heavy. What I ended up using was a 36V 7ah battery and hand made a battery tray to put it in like this one on [eBay](#) pictured below (it will probably be gone before you read this, but you get the idea), search for “E-Cruiser Deluxe”. It came with a battery, charger, and setup with a charge port in the lower rear of the tray, so it is an easy plug and play setup.



One crossmember had to be cut out from under the deck to fit the battery, there were wiring, connectors and some soldering for it to all function properly. If you are good at wiring and soldering this will be a breeze. If not, hopefully someone will put together a kit that is plug and play soon for these kick bikes. Or if they are still available you can purchase an E-Cruiser Deluxe already assembled @ <https://sacramentokickbike.com>

This document will give you an idea of what is involved in doing a conversion and what it's going to cost to make it happen. But, once your up and running, there are more modifications you can do to even cooler.

Also remember if you are ordering from China, there is a month or more for shipping times, so expect to pay more for parts located in America

Here are a couple YouTube videos on the conversion:

Frame Modification: <https://www.youtube.com/watch?v=CQt7EhGa0pA&t=32s>

Overview: <https://www.youtube.com/watch?v=UllYWgtTvTk>

Suspension Modification: [https://www.youtube.com/watch?v=C7CTu\\_31H8E](https://www.youtube.com/watch?v=C7CTu_31H8E)