



Installation instructions and Owner's Manual for
Erad kits installed on a Day 6 Electric Bicycle.

This manual will show you how to install a Bafang mid drive motor system from Lectric Cycles on a Day 6 bicycle. There are a few tricks we have learned that will be different from their video (go to <http://www.lectriccycles.com/faq/> for installation and console setup.) If you do not have experience working on bicycles, you need to have your local bicycle dealer do the installation. You will need special tools to remove the cranks and bottom bracket as well as other tools common to the bicycle industry.

Step 1. Remove the pedals from the crank arms and the crank arms from the bottom bracket. You will need a bicycle crank puller.

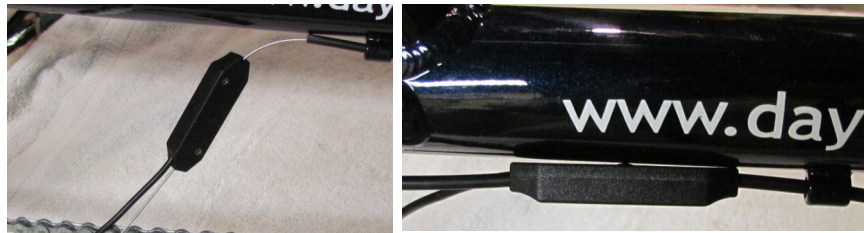
Step 2. Remove the bottom bracket. This will take a special bottom bracket tool. The left side removes by turning the ring counter clockwise. The right side needs to turn clockwise.

Step 3. Remove hand grips, shifters, and brake levers. If your bike is equipped with a front derailleur, remove that and discard along with shifter and cable.

NOTE: If you have a 350W system, skip steps 4-8.

Step 4. Remove shifter cable from rear derailleur and remove the rear section of housing.

Step 5. The gear sensor will be mounted to the shifter cable as shown in picture on right. Cut the housing about 1" from the cable guide as shown.



Step 6. Slide the gear sensor over the shifter cable. (NOTE: Wire from gear sensor must point to the rear.) This will take some persistence as there is resistance inside the gear sensor. Rotate the gear sensor as you push so the cable will not unravel. It will go on but takes some time.

Step 7. After the gear sensor is in place, cut 2.25" off the other end of the housing so it fits the gear sensor and it is the right length to fit in the cable stop.

Step 8. Replace rest of housing and fit cable back into derailleur and tighten derailleur nut. The gear sensor is probably the most difficult part so the rest is down hill!

Step 9. Place motor shaft into bottom bracket shell and let motor hang straight down.

Step 10. Thread console cable over top of motor. This must be done before motor is rotated up and tightened.



Step 11. Put the Y shaped bracket over motor shaft and insert two bolts through bracket and into motor. Do not tighten yet. NOTE: The Y bracket has bumps on one side. They MUST be on the inside, toward the frame, to lock it into place.



Step 12. Install gray lock ring over shaft, and tighten with supplied socket. Make sure it is very tight.

Step 13. Securely tighten Y bracket bolts. Place black beauty ring over gray lock ring and tighten with supplied socket. Your motor is installed!

Step 14. Install Bafang brake lever, shifter, and hand grip on right side of bar - in that order.

Step 15. Install Bafang brake lever, thumb pad, thumb throttle, and hand grip on left side of bar - in that order.

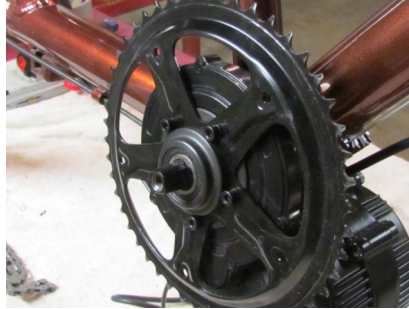


Step 16. Place console on LEFT side of handlebar crossbar as shown — using the spacers. If you don't put it to the left, the wires won't reach.

Step 17. Plug in all wires by color and by lining up arrows on the wires.

Step 18. Rotate brake levers and thumb pad and thumb throttle to desired position and tighten.

Step 19. Place chain ring on right side of motor with the bulge facing out and the teeth to the inside.



Step 20. Install chain guard with supplied bolts.



Step 21. Install new cranks and use new crank bolts. Securely tighten.

Step 21. Install pedals.

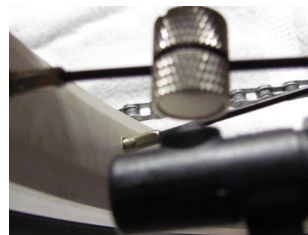
Step 22. Install battery mounting base to water bottle bolts on frame. Depending on which Day 6 you own, this could be on the top of the top tube (smalls) or on the top of the down tube (larges).

Step 23. Slide battery onto mounting base and lock with key. Plug in battery wire and tighten nut.

Step 24. Slide speed sensor into speed sensor mount so it telescopes. Install speed sensor assembly on the left side chain stay - using the cable extension. **NOTE:** Be sure sensor wire is pointing toward the rear to avoid contact with tire. Peel off paper to expose sticky back and place on chain stay. Secure with two wire ties.



Step 25. Attach speed sensor magnet to a left side spoke so it passes just by the sensor.



Step 26. Insert small black screw into side of speed sensor mount so sensor is locked in place. Make sure all cables are secured.

Follow Lectric Cycles' battery care instructions and console set up instructions. Also follow all bicycle safety instructions. Email us at kelly@day6bikes if you have any further questions.

Important:

Please read all information in this manual carefully for your own safety, as well as maximum enjoyment and performance of your e-RAD kit. Your e-RAD kit is designed for on road and light off road use only. Extreme off road use, jumping, racing, or prolonged exposure to the elements can put the operator at serious risk for injury or death and may void your warranty.

Before You Begin:

Before you ride your e-RAD electric bike for the first time, it is recommended that you **charge the battery for 8 hours**. An initial charge will help condition your battery and allow for optimum performance throughout its life. Please note that your charger's indicator light may turn green, indicating a complete charge, before the conclusion of the 8 hour period. Allow the charge to continue until the full 8 hours are complete. Subsequent charges will be completed automatically when the light turns green.

Your Warranty at a Glance:

Electric Kit Components: 1 year

Batteries: 1 year

Range and Performance

Maximum range on a full charge can vary depending on: battery age, terrain, rider weight, temperature, riding style, amount of rider pedaling, and speed. At 20 mph on normal road conditions, with fully inflated tires, the e-RAD kit's range is between 15 and 30 miles. Battery range below or above this level is normal and not cause for concern.

Tips for Maximizing Range:

Charge battery at room temperature (32-85°F)

It is not necessary to discharge the battery completely for best performance. Charging a partially full battery will have no negative effects.

Use the bicycle's gears as much as possible. Pedal!

Maintain proper tire pressure and lube the chain regularly.

Operating temperatures between 40°F and 85°F will significantly increase range.

Get your bike a regular (every 6 months) tune up.

The LCD Control Panel

When the center button on the thumb pad is pressed for two seconds, the LCD screen will come on, showing battery status and that the bike is ready to ride.

The center button on the thumb pad turns off the power assist.

The up and down arrow buttons on the thumb pad access five different levels of power operation. In all modes the throttle is active and can provide up to 100 percent of the available power. When using assist levels 1-5, the power will begin when you begin pedaling.

If the LCD does not come on after holding the center button for two seconds, verify that the battery is charged, correctly installed, and the power cord plugged in securely.

If the battery meter is flashing, power assist will not be available or will come and go. This indicates a low battery level and the battery must be charged.

When storing your e-RAD equipped bicycle, be sure to unplug the battery.

Battery Life If used in accordance with the guidelines contained in this manual, the Li-Ion battery has an expected life span of 1000 charge cycles.

Extended Storage:

Always fully charge the battery before leaving the bicycle unused for extended lengths of time and unplug the battery. Recharge the battery every 90 days during storage for optimum battery performance.

Car Carriers When transporting your electric bicycle on a car carrier, it is highly recommended that you remove the battery to reduce weight and minimize problems from adverse weather and road conditions.

Cleaning Always keep your e-RAD system clean and dry. Store your electric bicycle inside or use a cover to protect them from UV and weather damage. If your bike needs to be washed, use a soft damp cloth and a non-toxic cleaner. Avoid high pressure water or compressed air. These can force water and debris into sensitive electronic components and cause a malfunction.

Charging The Battery

Avoid using extension cords.

The light on the charger should indicate a steady red light while charging. If the light remains green, the battery may be completely charged.

A full charge should take approximately 4–6 hours, at which point the charger should indicate a steady green light.

When the charge is complete, first, unplug the charger from the battery, then unplug from wall.

NOTE: You may charge the battery while it is still mounted in the frame of the bike. If doing so outside, ensure that the battery, charger, and power cables are protected from the elements. Failure to do so may result in electrocution, injury, or death.

NEVER allow battery to freeze. This will ruin the battery and is not covered by warranty.

Warranty

ONE YEAR LIMITED WARRANTY ELECTRIC BICYCLE COMPONENTS

Lectric Cycles, LLC (“Lectric Cycles”) warrants that all new e-RAD Conversion Kits (“kit”) and components therein are warranted to the original retail purchaser (“Purchaser”) against manufacturing defects in materials and/or workmanship for a period of one (1) year from the date of original retail purchase.

Terms of Limited Warranty

This warranty becomes effective on the date of original retail purchase. This warranty is not meant to suggest or imply that the kit cannot be broken or will last forever. It does mean that the kit is covered subject to the terms of the warranty. This warranty applies only to the original Purchaser of a kit and is not transferable to subsequent owners or any other party. This warranty is void if the kit is subjected to abuse, neglect, improper repair, improper maintenance, alteration, modification, an accident or other abnormal, excessive, or improper use, at the sole discretion of Lectric Cycles.