

Installing a CEMOTO Motor — Step-by-Step

“ Wiring orientation, phase order, mounting and the first-run checks that confirm you got it right.

Applies to: D-series

<https://www.youtube.com/embed/BEzjheNY9H4?rel=0>

How to Install a CEMOTO Motor | Step-by-Step Tutorial — if the player does not load, [open the video on YouTube](#).

What you need

Tool	Notes
Socket set	Axle nuts and mounting hardware
Torque wrench	See Torque Reference
Insulating tape / heat shrink	For any repaired cable run
Cable ties	Replace the ones you cut

“ ⚠ **Warranty note.** Opening a motor voids the warranty on that part. Follow CEMOTO support's instructions for a warranty replacement. See [Warranty Claims](#).

Steps

1. **Support the bike** so the wheel is clear of the ground.
 2. **Route the motor cable before mounting.** Fit the cable into its frame guides first — it is far harder once the wheel is in place.
 3. **Seat the motor in the swingarm/dropouts**, checking any spacers or torque washers go back in the same positions.
 4. **Fit the axle nuts finger-tight**, then torque to specification with the wheel aligned.
 5. **Connect the three phase wires.** They are color-matched — **match them exactly.** Wrong phase order causes rough running or no rotation at all.
 6. **Connect the hall sensor plug.** Small, multi-pin, easy to seat only halfway. Push until it clicks, and check no pin has backed out.
 7. **Refit the chain / belt** and set the tension — approximately 15 mm slack where a chain is used.
 8. **Check the brake** runs true and does not bind on the disc.
 9. **Rotate the wheel by hand** before applying power. It must turn freely with no rubbing.
 10. **Power on and test at walking pace**, then check for error codes. E07 here means the phase or hall connection needs rechecking — see [E07](#).
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Watch out for

- **Cross-threading an axle nut.** Start them by hand, always.
 - **Getting phase order wrong.** Match the colors; do not trust that they were right before.
 - **Leaving the hall sensor plug half-seated.** It produces an intermittent E07 that is maddening to trace later.
 - **Reusing cut cable ties** — replace them.
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Related

- [Motor Removal](#)
 - [Motor Error E07](#)
 - [Torque Reference](#)
 - [Tutorials Index](#)
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