



Thank you for purchasing the E3™ HALO Compact Alloy Crankset with Integrated Bottom Bracket. Please read the instructions carefully before installing this crankset. If you are unsure of your ability to properly install and maintain this crankset, please consult a qualified bicycle mechanic.

WARNING

Use of this product poses specific safety concerns relating to proper installation/maintenance, riding stability and component durability. Be sure to read and understand the instructions and safety information before installation or use. Failure to be thoroughly familiar with this information may result in serious personal injury or even death.

Tools Needed for Installation:

- 1) Make sure that the frame's bottom bracket shell threads are clean and undamaged. There should be no paint or dirt present. For best results, have your frame's bottom bracket shell threads chased and faced by a qualified bicycle mechanic.
- 2) Check to make sure the threads of the bottom bracket match the threads in the bottom bracket shell of your frame.
- 3) Apply a thin film of grease to the frame's bottom bracket shell threads. Thread the left bearing cup assembly into the non-drive side (left side) of the frame (clockwise to tighten) until the flange stops against the frame's bottom bracket shell face. Torque the left bearing cup to 34 - 50 Nm using a torque wrench.
- 4) Thread the right bearing cup assembly into the drive side (right side) of the frame (counter clockwise to tighten) until the flange stops against the frame's bottom bracket shell face. Torque the right bearing cup to 34 - 50 Nm using a torque wrench.
- 5) Slide the drive side (right) crankarm and spindle assembly through the drive side (right) side of the bottom bracket until the left side splines come through the left side bottom bracket cup and the spindle stops.
- 6) Taking care to properly align the splines; assemble the non-drive side (left) crankarm onto the bottom bracket spindle using the included hex wrench and torque wrench. Tighten the non-drive side crank arm bolt to 2 - 2.5 Nm.
- 7) Then use a hex wrench and torque wrench to tighten the pinch bolts on the non-drive side (left side) crank arm. Tighten each of the pair of M5 pinch bolts to 8 - 10 Nm.
- 8) Check the whole assembly for play by pulling crankarm away from frame, alternating back and forth. If the crank moves, loosen the pinch bolts and tighten the tighten crankarm bolt until no play is detected.
- 9) Check to be sure that the chainring bolts have been installed to the proper torque spec. Chainring bolts should be tightened to 12 Nm.
- 10) Install pedals according to the instructions provided by the pedal manufacturer. Drive side has right hand pedal-thread. Non-drive side has left hand pedal-thread.

NOTE: If creaking of the crank assembly occurs, check that all parts were torqued to specification, and that grease is liberally applied on all surfaces.

NOTE: The seals of the bottom bracket were designed to prevent contamination; new seals will feel stiff upon initial installation. This is normal. Over time, the friction that is present within the bearing seals will gradually diminish.

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Made in Taiwan

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