EASTON EC90 CRANK SET

Congratulations on your purchase of an Easton EC90 Crank Set and Easton EC90 Bottom Bracket Cups. To ensure the best performance and longest service life from your Easton EC90 crank set and bottom bracket, please read and carefully follow these installation instructions.

⚠ CAUTION!
All Easton products should be installed by a qualified bicycle mechanic using appropriate professional tools. **Easton assumes no liability for products which are improperly installed.**

⚠ WARNING!
Failure to follow these instructions can result in component failure. Component failure can lead to loss of control of the bicycle and result in serious personal injury or death.

1. Before you start
- Look at the illustration and verify that you have all the parts shown (Figure 1).
- Confirm that your frame's bottom bracket threads (68 mm English or 70 mm Italian) match the bottom bracket cup threading of your Easton EC90 crank set.
- If you are replacing a crank set, remove it and the bottom bracket cups.

2. Frame BB Shell Prep
⚠ CAUTION!
When installing Easton components in conjunction with another manufacturer's components, always follow that manufacturer's installation instructions for their components. EASTON ASSUMES NO LIABILITY FOR DAMAGE CAUSED BY INSTALLING OTHER MANUFACTURERS PRODUCTS.
- Ensure that the BB shell ends are faced and square, and clean of paint. It may be necessary for the BB shell to be "faced and chased" by a professional mechanic.
- Ensure that the BB shell threads are clean of machining chips, dirt, dust, etc.
- Clean and grease the BB shell threads before installing cups.

3. BB Cup Installation
⚠ CAUTION!
The RIGHT (chain ring side) cup of an English 68 mm bottom brackets is installed *counter-clockwise* to tighten. An Italian 70 mm is installed *clockwise* to tighten.
- Lightly grease the threads of the RIGHT (drive side) bearing cup (Figure 1-F) and install it in the frame with the plastic middle spacer attached (Figure 1-E). Tighten to 34–41 Nm (25–30 ft-lbs) using Shimano TL-FC32 Tool or equivalent.
- Lightly grease the threads of the LEFT (non-drive side) bearing cup (Figure 1-D) and install it in the frame. Tighten *clockwise* to 34–41 Nm (25–30 ft-lbs) using Shimano TL-FC32 Tool or equivalent.

4. Crank Set Installation
⚠ CAUTION!
The Aluminum Spindle Cap on the Right Side Crank Arm is permanently attached and can not be removed or tightened.
- With the exposed metal side of the grease seal facing the bearing and the logo/printed side facing the crank arm, install one grease seal on the spindle/drive side crank arm (Figure 1-G).
- Apply a light coat of grease to the bearing surfaces on the spindle.
- Gently and completely insert the RIGHT crank arm (Figure 1-H) by sliding the spindle though the BB cups.
- With the exposed metal side of the grease seal facing the bearing and the logo/printed side facing the crank arm, install the second grease seal on the spindle (Figure 1-C).
- Apply a light coat of grease to the spindle splines.
- Make sure that the two M6 pinch bolts (Figure 1-B) on the LEFT crank arm are loose; then install the LEFT crank arm on the spindle.
- Grease the threads of the preload adjuster nut (Figure 1-A), install it into the left side of the spindle, and tighten to 0.7–1.5 Nm (6–13 in-lbs).
- Using an alternating pattern, progressively tighten the pinch bolts (Figure 1-B) on the left crank arm to 12 Nm (105 in-lbs).

⚠ WARNING!
The two left arm pinch bolts must be tightened alternately in stages rather than each bolt being fully tightened all at once. If the tightening torques are too weak or if the mounting bolts are not tightened alternately in stages, the left crank arm may come loose, resulting in loss of control of the bicycle.

After approximately 100 km (60 miles), use a torque wrench to re-check the tightening torques.

5. Pedal Installation
- Grease the pedal threads
- Identify the RIGHT and LEFT pedals by the mark on each spindle. The LEFT pedal is installed *counter-clockwise*; the RIGHT pedal is installed *clockwise*.
- Torque pedals to 29–34 Nm (22–25 ft-lbs)

6. Chain ring replacement
⚠ CAUTION!
Check with the manufacturer of your derailleur to determine if the derailleur capacity is sufficient for the chain rings being installed. Also, note that chain rings are designed to work in certain combinations to optimize shifting performance.
- With the Easton Logos and printed surface facing out, position the larger chain ring so that the chain drop prevention pin is located behind the crank arm (Figure 2-A).
- With the Easton Logos and printed surface facing out, position the inner chain ring so that the alignment guide is located behind the crank arm (Figure 2-B).
- Apply grease to the chain ring bolt threads and surfaces where they contact the crank arm and chain rings. Torque fasteners to 4.5 Nm (40 in-lbs).

NOTE: When the chain is on the inner chain ring and the small cogs of the rear cassette, it may contact the larger outer chain ring and make noise. Do not use the chain at this extreme combination.

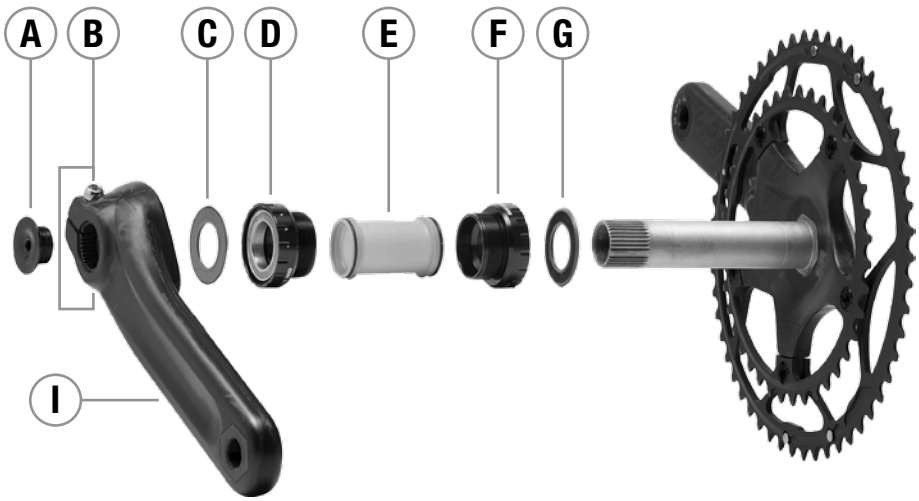
7. Maintenance
EC90 crank sets must be maintained and inspected closely. In particular:
- Inspect for looseness, dents, bends, deep scratches, cracks or gouges before each ride. If any are visible or noticeable, do not use the bicycle until the crank set has been replaced.
- Crank sets may be severely weakened even if no damage is visible. After a major impact or accident, even if no damage is visible, have a dealer inspect the crank set before using the bicycle. Do not attempt to straighten a bent crank set. It must be replaced.
- Do not wash the bottom bracket with high-pressure jets of water.
- Your crank set warranty is not meant to imply that the crank set will not wear or weaken with use. Consult your dealer as to the appropriate frequency of crank set replacement. Replace a scratched or damaged crank set immediately. Destroy any crank set which you have replaced for safety reasons.

WARRANTY
Easton products are warranted to be free of defects in materials and workmanship. We offer a limited lifetime warranty on our EC90 carbon fiber Crank Set. Warranty is for the original owner only and proof of purchase is required. This warranty is in lieu of all other warranties. ANY IMPLIED WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE OR WARRANTIES OF MERCHANTABILITY ARE LIMITED TO THE DURATION OF THE EXPRESSED WARRANTY. Depending on individual state laws, the above exclusion may not apply to you. This warranty gives you specific rights. You may have other legal rights depending on the state in which you reside.

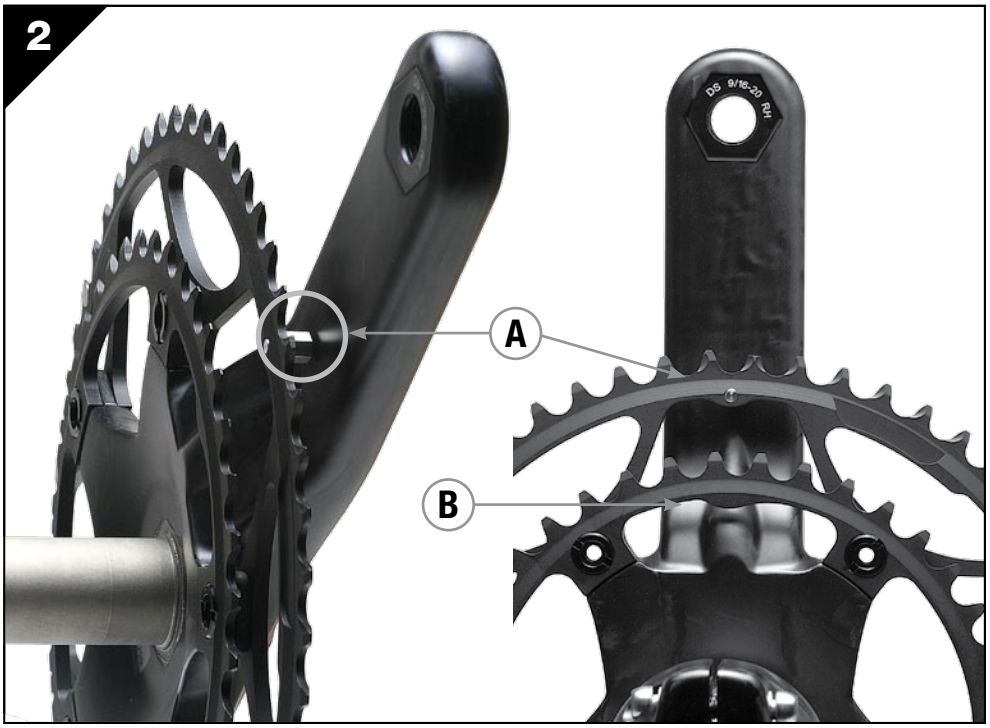
Please consult the *Contact Us* page of the Easton web site <www.eastonbike.com> for warranty contact information. Select *North American Dealers* or *International Distributors* depending on your location.

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