

Track Crank Set Installation Instructions

To ensure maximum life and performance from your Phil Wood Track Crank Set, proper assembly and installation is required. If you are not comfortable with performing any of the following instructions, contact our sales or service department and we can do our best to find a bicycle shop in your area that will be able to assist you. (See Service Information at the end of these instructions.)

On the backside of this page you will find a diagram showing the assembly order and part names we will be using in these instructions.

Please visit www.philwood.com for up to date product care instructions, warranty, service and return policy information. Thank you for your support.

TOOLS NEEDED:

- 5mm Hex Wrench
- 8mm Hex Wrench
- Chaining nut wrench (such as Park Tool CNW-2)
- Torque Wrench (recommended, not required)
- Phil Wood Waterproof Grease

Step 1: Install Your Phil Wood Square Taper Bottom Bracket

1. Follow our *Square Taper Bottom Bracket Cup Installation Instructions*.

Step 2: Install Phil Wood Chaining onto Drive Side Crank Arm

1. Carefully install your chaining (D) onto your drive side crank arm (C).
2. Put a small amount of Phil Wood Waterproof Grease onto the threads of each chaining bolt (see diagram 1A).
3. Hand tighten all 5 chaining bolts (E) onto the drive side crank arm (C) by hand.

PLEASE NOTE: While hand tightening all 5 chaining bolts, if for any reason any of them start to bind or become difficult to thread in by hand: STOP. Carefully unthread the chaining bolt and check the threads for burrs or damage. Forcing the chaining bolt to thread can cause damage.

4. Using a chaining nut wrench and a 5mm hex wrench torque the chaining bolts to 8 N-m in the correct order (see diagram 3).

Step 3: Install Crank Arms onto Square Taper Bottom Bracket

1. Put a thin coating of Phil Wood Waterproof Grease onto the threads of the crank bolt covers (A), crank bolts (B), and the taper of the bottom bracket spindle (see diagram 1B and 2).

PLEASE NOTE: While hand tightening both your crank bolts, if for any reason either one starts to bind or become difficult to thread in by hand: STOP. Carefully unthread the crank bolt and check the threads for burrs or damage. Forcing the crank bolt to thread into your bottom bracket can cause damage.

2. Install your drive side crank arm onto the drive side of your bottom bracket spindle and secure it with a crank bolt (B), tightening the bolt by hand. Using a 8mm hex wrench torque the crank bolt to 40 N-m)
3. Install your non-drive side crank arm onto the non-drive side of your bottom bracket spindle and secure it with a crank bolt, tightening the bolt by hand. Using a 8mm hex wrench torque the crank bolt to 40 N-m)
4. Install both of your crank bolt covers (A) onto both drive and non-drive side crank arms with a 5mm hex wrench, torque to 1 N-m.

PLEASE NOTE: While installing both your crank bolt covers, if for any reason either one starts to bind or become difficult to thread in: STOP. Carefully unthread the crank bolt cover and check the threads for burrs or damage. Forcing the crank bolt cover to thread into your crank arm can cause damage.

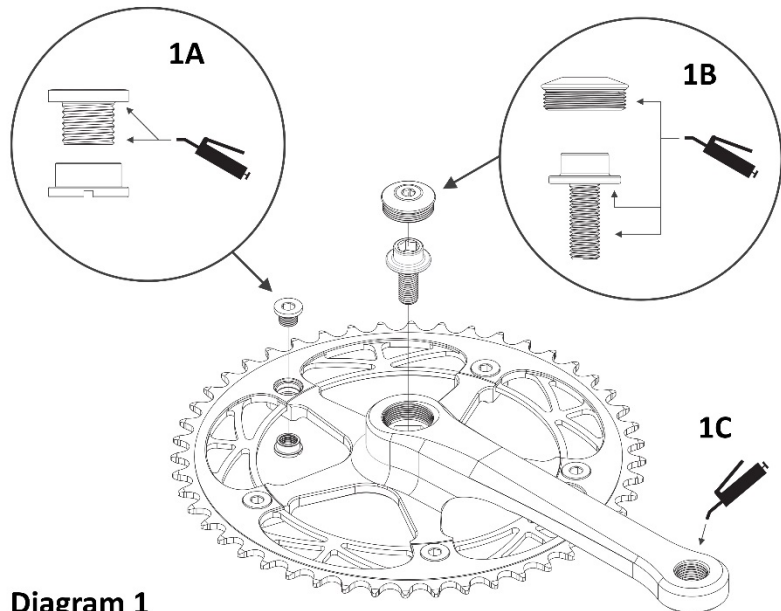


Diagram 1

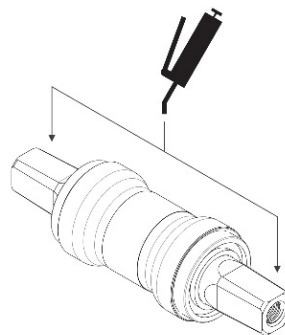


Diagram 2

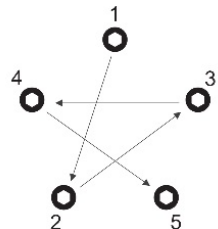


Diagram 3

Step 4: Pedal Installation Preparation

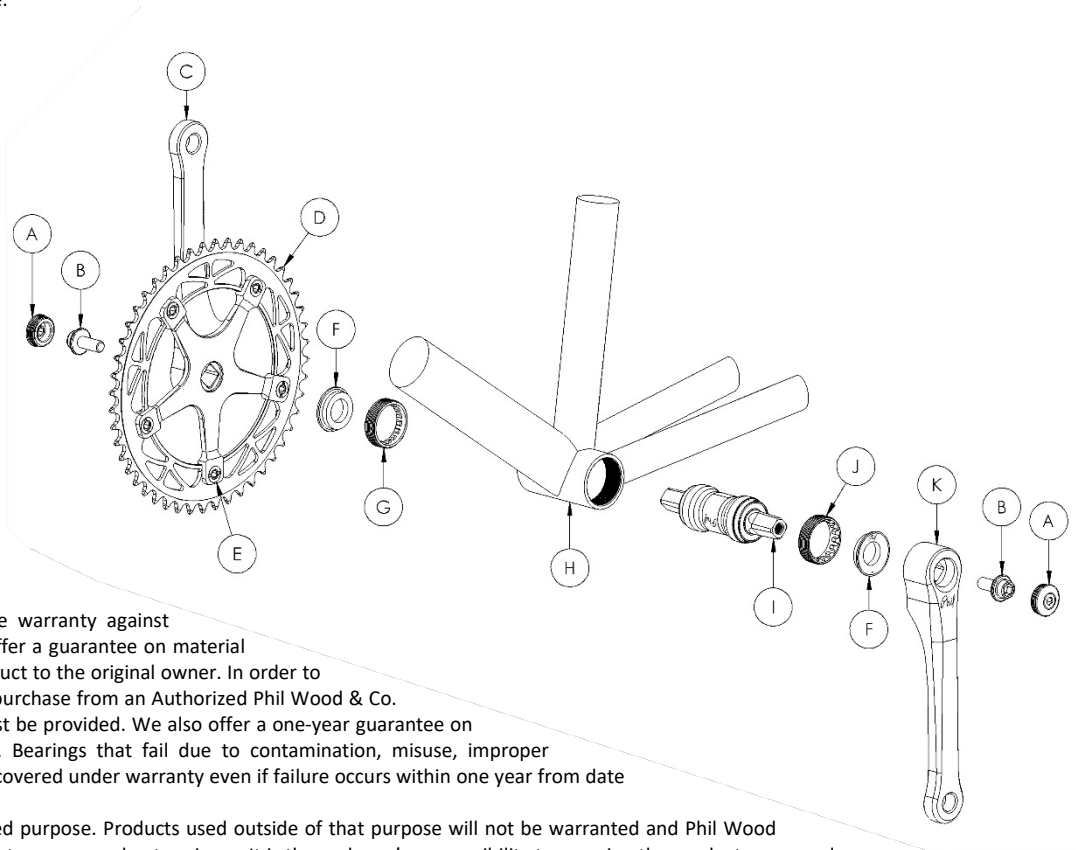
1. Before installing your preferred pedal be sure to put a thin coating of Phil Wood Waterproof Grease onto the pedal threads of both crank arms (see diagram 1C).

Step 5: Maintenance

1. Every few rides, make sure to check that your chainring bolts are torqued to 8 N-m, your crank bolts to 40 N-m, your crank bolt covers to 1 N-m, and your pedals are properly tightened. They may loosen over time.

Track Crank Overview

- A. Crank bolt covers
- B. Crank bolts
- C. Drive side crank arm
- D. Chainring
- E. Chainring bolts
- F. Mud guards
- G. Drive side cup
- H. Frame bottom bracket shell
- I. Bottom bracket (JIS taper only)
- J. Non-drive side cup
- K. Non-drive side crank arm



Torque Specifications

- A. Crank bolt covers (torque to 1 N-m)
- B. Crank bolts (torque to 40 N-m)
- E. Chainring bolts (torque to 8 N-m)

Limited Warranty

Phil Wood & Co. provides a limited lifetime warranty against manufacturing defects. This means that we offer a guarantee on material and production thereof for the life of the product to the original owner. In order to be considered for warranty, original proof of purchase from an Authorized Phil Wood & Co. Retailer/Dealer showing date of purchase must be provided. We also offer a one-year guarantee on all our bearings from the date of purchase. Bearings that fail due to contamination, misuse, improper tampering, or improper maintenance are not covered under warranty even if failure occurs within one year from date of purchase.

All Phil Wood & Co. products have an intended purpose. Products used outside of that purpose will not be warranted and Phil Wood cannot be held responsible for any damage that may occur due to misuse. It is the end user's responsibility to examine the product on a regular basis to determine if it requires service and or replacement. (See included maintenance instructions for further information.)

NOT COVERED UNDER THIS LIMITED WARRANTY ARE THE FOLLOWING:

1. Normal wear of parts that are subject to wear (e.g. bearings and ratchet mechanisms)
2. Incorrect re-assembly
3. Use in combination with other products that are not compatible (e.g. threading a FW onto the fixed side of a track hub)
4. Insufficient maintenance, tampering, misuse, and neglect.

*Phil Wood & Co. does not cover the cost of shipping on repair or warranty items back to us beyond 90 days from the original purchase date.

Return Policy

All returns, regardless of reason or cause, must have a return authorization number (RA#). We will not accept or process any item(s) without an RA#. Please contact us for RA# information via email at sales@philwood.com or call us at (408) 298-1540.

- RA#s are good for up to 60 days from the day they are issued.
- Items returned for credit are subject to a 15% restocking fee unless the item is returned due to our mis-shipment.
- Product and parts can be returned for credit (less restocking fee) if the product was never installed, used, altered, or damaged in any way. The return must be within 90 days of the original date of purchase.
- Items returned for exchange due to an ordering error are subject to a 15% restocking fee and all shipping fees for up to 30 days from the date of purchase.
- Product and parts returned more than 30 days after date of purchase can be returned for credit (less a 30% restocking fee) for up to 90 days from the day of purchase.
- After 90 days, item(s) may not be returned for credit or exchange.
- Customer is responsible for properly packaging the returning item(s).
- Customer is responsible for any damages incurred due to improper packaging. Customer is also responsible for shipping fees.
- Partial credit may be given for returned item(s) that suffered cosmetic damages resulting from installation or shipping. Eligibility for credit will be determined by Phil Wood & Co.'s warranty and technical personnel. Any damage to a product that may compromise the integrity of the part will void any applicable credit.

Service Information

All services must have a return authorization number (RA#). We will not accept or process any item(s) without an RA#. Your issued RA# should be clearly written on the outside of your package so our service department can match your item(s) to the service information on file. Items sent to Phil Wood & Co. for service without a valid and legible RA# on the outside of the package will be REFUSED and returned to sender at their cost. (Depending on how busy our service department is, standard services can take 1-2 days to complete. Standard services can take longer to complete depending on service department workload and part availability.) Once issued, an RA# is valid for 60 days.

PLEASE NOTE: Items sent to Phil Wood & Co. for service without a valid and legible RA# placed on the outside of the package will be REFUSED and returned to sender at their cost. Phil Wood & Co. does not cover the cost of shipping on repair or warranty items sent back to us beyond 90 days from the original purchase date.