



# M24 ROAD CRANK

DIRECT MOUNT SPIDER | STEEL SPINDLE

## SAFETY INFORMATION - READ BEFORE RIDE

Since specific tools and experience are necessary for proper installation, it is recommended that the product be installed by a qualified bicycle technician.

Read the service instructions of your crank carefully prior to installing the parts. Loose, worn or damaged parts may cause riding problems and serious injury may occur as a result. If installation and adjustments are not carried out correctly, the chain may come off and this may cause you to fall off the bicycle which could result in serious injury. **Read these instructions carefully, and keep them for later use.**

- Be careful not to let your clothing get caught in the chain while riding, otherwise you may fall off the bicycle.
- Check that the tension of the chain is correct and that the chain is not damaged. If the tension is too weak or the chain is damaged, the chain should be replaced. The chain may break and you may fall off the bicycle if this is not done.
- Use a torque wrench to check the final tightening torque of the main crank bolt and chainring bolts. Furthermore, after riding approximately 100 km (60 miles), use a torque wrench to re-check the tightening torques. **Main Crank bolt = Torque 48-55Nm. Chainring Bolts = Torque 8-10Nm.**
- If the bottom bracket shell is not parallel, shifting performance will be affected and performance will drop.
- Check that there are no cracks in the crankarms before riding the bicycle. If there are any cracks, the crankarm may break and you may fall off the bicycle.
- Before riding the bicycle, check that there is no play or looseness in the bottom bracket connection. Also, be sure to retighten the crank, chain ring bolts, and pedals at periodic intervals
- If you feel any looseness or 'play' in the bearings, the bottom bracket should be inspected/replaced.
- To ensure the designed performance, only use 10 or 11sp chains by KMC, Shimano, or Campagnolo.
- **Parts are not guaranteed against natural wear or deterioration resulting from normal use.**
- For any questions regarding methods of installation, adjustment, maintenance or operation, please contact a professional bicycle dealer or call Praxis Works.
- Praxis Works assumes no responsibility for damages or injury related to improperly installed components.

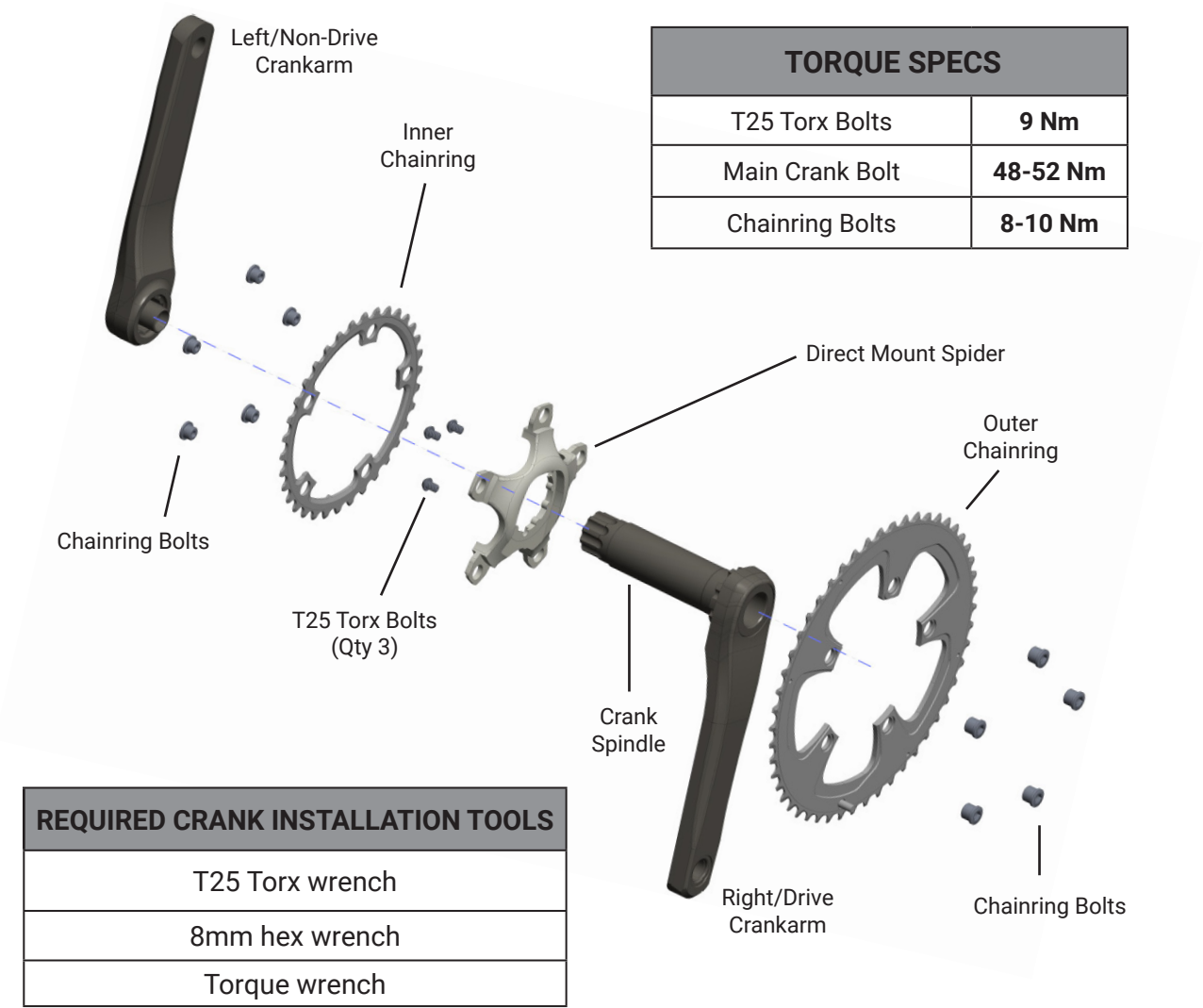
READ THE STEP BY STEP INSTRUCTIONS PROVIDED ON THE OTHER SIDE.

## WARRANTY

- Praxis Works products are warrantied to be free from defects in materials or workmanship for two years after original purchase. The warranty is non-transferable and valid to the original purchaser of the product only.
- Any attempt to modify the product in any way such as drilling, grinding or painting will void the warranty.
- This warranty is not valid for "abused" or neglected products, or products that are damaged by improper installation.
- If a defect is found, our entire liability and your sole remedy shall be, at our option, free repair or replacement of the Praxis product.
- Except as expressly required by law, Praxis Works shall not be held liable for any indirect, special, or consequential damages.

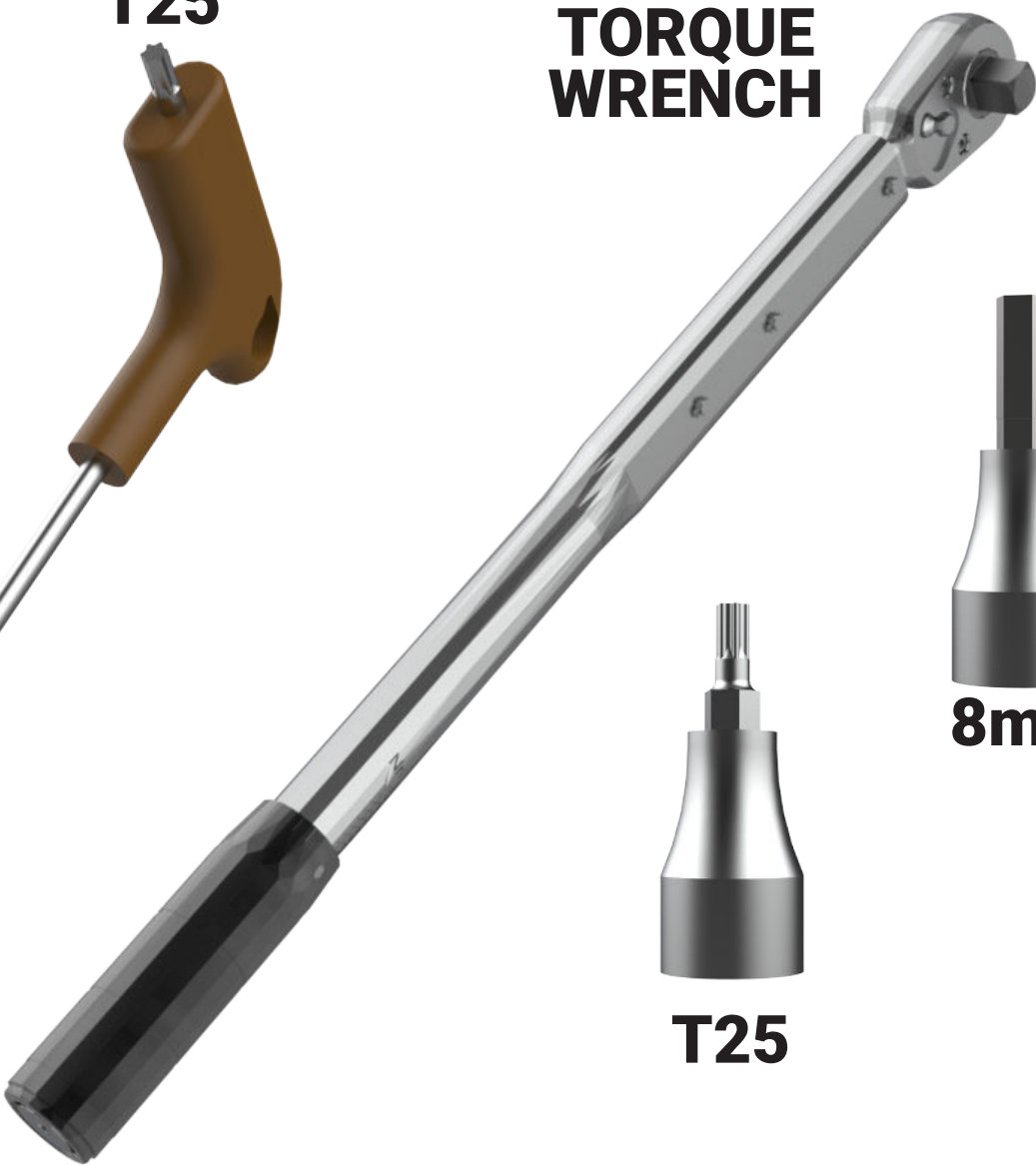
THIS WRITTEN EXPRESS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, IMPLIED OR EXPRESSED. This warranty gives you specific legal rights, and you may also have other rights which vary state to state. **For more information on warranty policy and instructions for completing a warranty claim, check out the Full Warranty Policy found at our website. [www.praxis-works.com](http://www.praxis-works.com)**

M24 Direct Mount Road   Compatibility and Spec		
BOTTOM BRACKET	Praxis Works <b>M24 - BSA / BB86 / BB30/PF30</b>	
FRONT DERAILLEUR	Braze-on or Clamp-on	
GEARING	48/32, 50/34, 52/36	DM1X
BCD	3-BOLT Direct Mount Spider determines (110/130)	
CRANKARM LENGTH	160, 165, 170, 172.5, 175	



REQUIRED CRANK INSTALLATION TOOLS
T25 Torx wrench
8mm hex wrench
Torque wrench

# TOOLS REQUIRED



# CRANK INSTALLATION

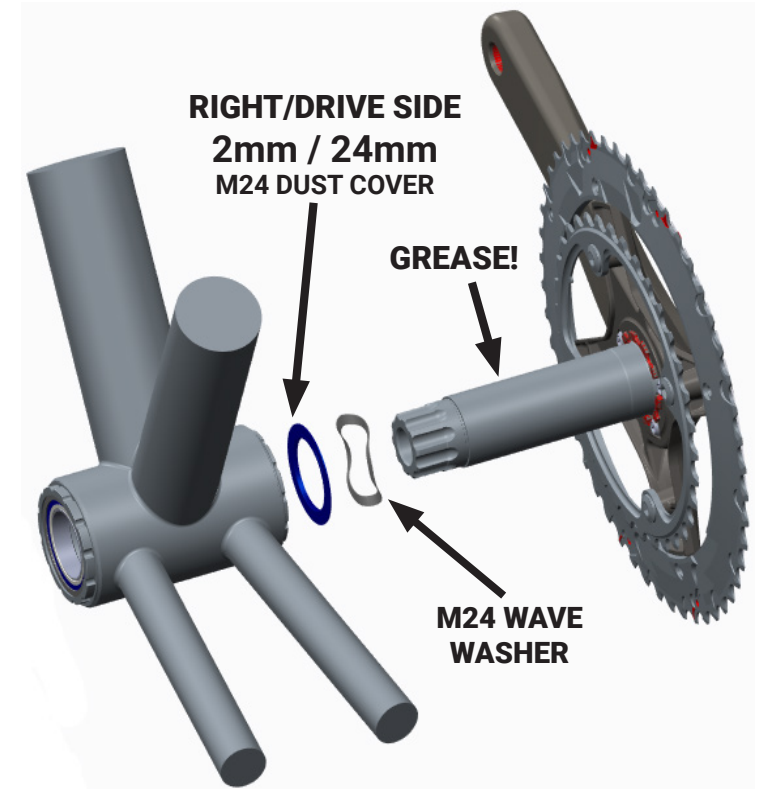
## BEFORE YOU START, READ THIS:

- Your Praxis **M24 bottom bracket** (*sold separately*) must be installed in frame
- Use BB Dust Covers and Wave Washer that came with M24 bottom bracket
- For bottom bracket instructions: [www.praxiscycles.com/manuals](http://www.praxiscycles.com/manuals)



# 1

1. Grease Direct Mount spider/drive arm interface
2. Install spider/rings on drive arm with 3 T-25 bolts
3. Torque bolts to 9Nm



# 2

1. Grease spindle
2. Slide Wave Washer onto spindle
3. Slide 2mm / 24mm Dust Cover onto spindle
4. Verify Dust Cover Praxis logos face spider

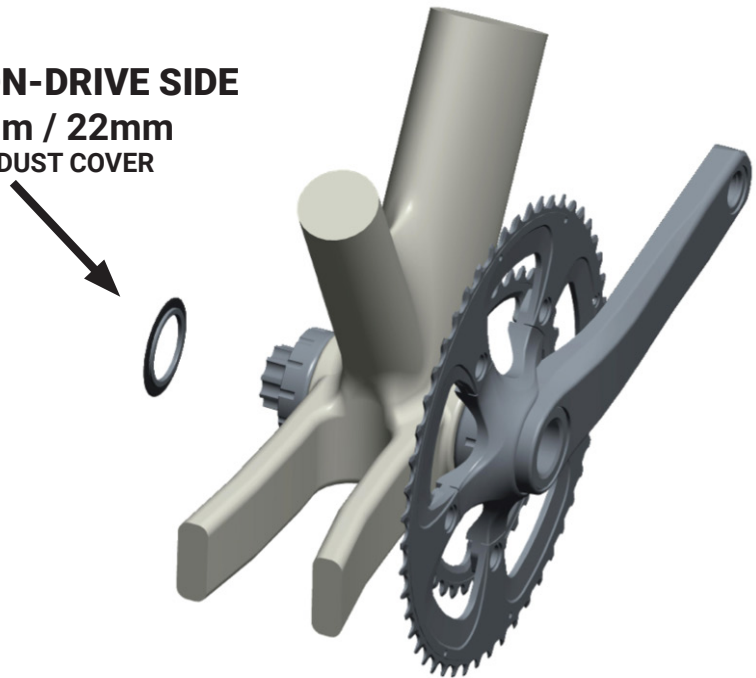
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# 3

1. Insert crank into Drive Side Cup
2. Push crank fully through bottom bracket
3. Put 1.7mm / 22mm Non-Drive Side Dust Cover onto spindle
4. Verify Dust Cover Praxis logos face outward

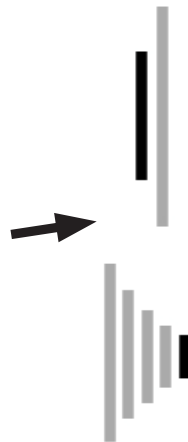
## LEFT/NON-DRIVE SIDE

1.7mm / 22mm  
M24 DUST COVER



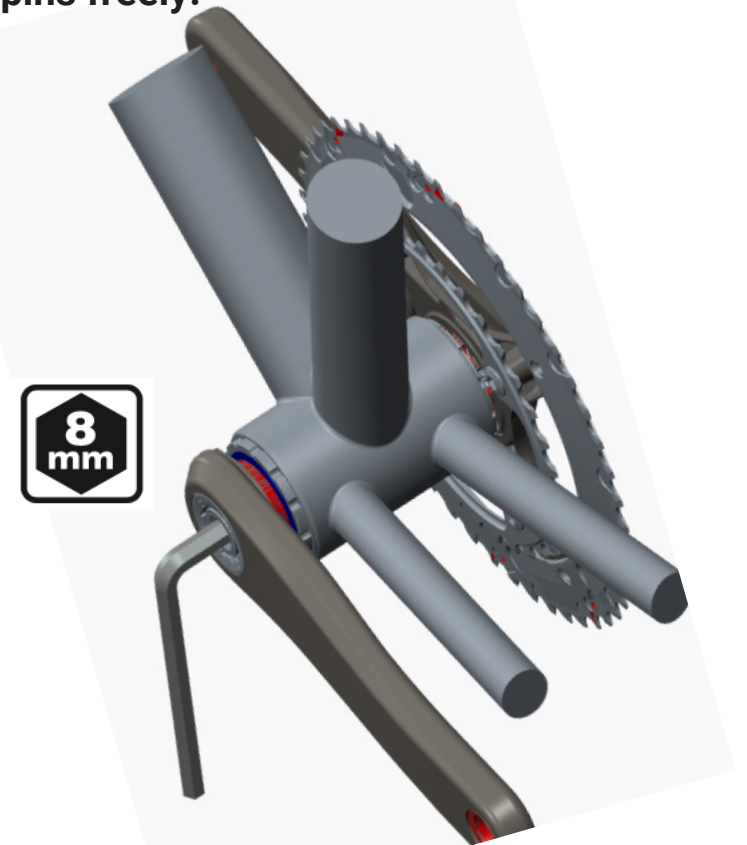
### NOTE : CROSS GEARING

When the chain is in the black/black position, it may contact the chainrings or front derailleur and make noise. If the noise is a problem, shift the chain onto one of the next-larger rear sprockets.



# 4

1. Install Non-Drive Side arm with 8mm hex wrench
2. Torque arm 8mm bolt to 48-52Nm
3. Verify crank spins freely.
4. Finished



### \* SIMPLE CRANK REMOVAL \*

ONLY use an **8mm** Allen wrench in the LEFT/Non-Drive Side crankarm bolt. Turn wrench counterclockwise to loosen the bolt. After it loosens the resistance will increase, which is normal. Keep turning to complete removal of crankarm. Once off, remove the crank from the frame.

# BB DUST COVER GUIDE

ROAD M24	WIDTH	M24 CRANK	LEFT 22MM COVER	LEFT CUP SPACER	RIGHT CUP SPACER	RIGHT 24MM COVER
BSA	68	ROAD DM	1.7mm	-	-	2mm
		ROAD NON-DM	1.7mm	-	-	2mm
		SRAM ROAD GxP	1.7mm			2mm
T47 E.B.	68	ROAD DM	1.7mm	-	-	1mm
		ROAD NON-DM	1.7mm	-	-	1mm
		SRAM ROAD GxP	1.7mm			1mm
T47 I.B.	85.5	ROAD DM	1.7mm	-	-	1mm
		ROAD NON-DM	1.7mm	-	-	1mm
		SRAM ROAD GxP	1.7mm			1mm
BB86	86.5	ROAD DM	1.7mm	-	-	2mm
		ROAD NON-DM	1.7mm	-	-	2mm
		SRAM ROAD GxP	1.7mm			2mm
BB30/PF30	68	ROAD DM	1.7mm	-	-	2mm
		ROAD NON-DM	1.7mm	-	-	2mm
		SRAM ROAD GxP	1.7mm	-	-	2mm

"DM" = DIRECT MOUNT SPIDER (*Removable Spider*)

"NON-DM" = NOT DIRECT MOUNT SPIDER (*Pressed-On OR Integrated Spider*)