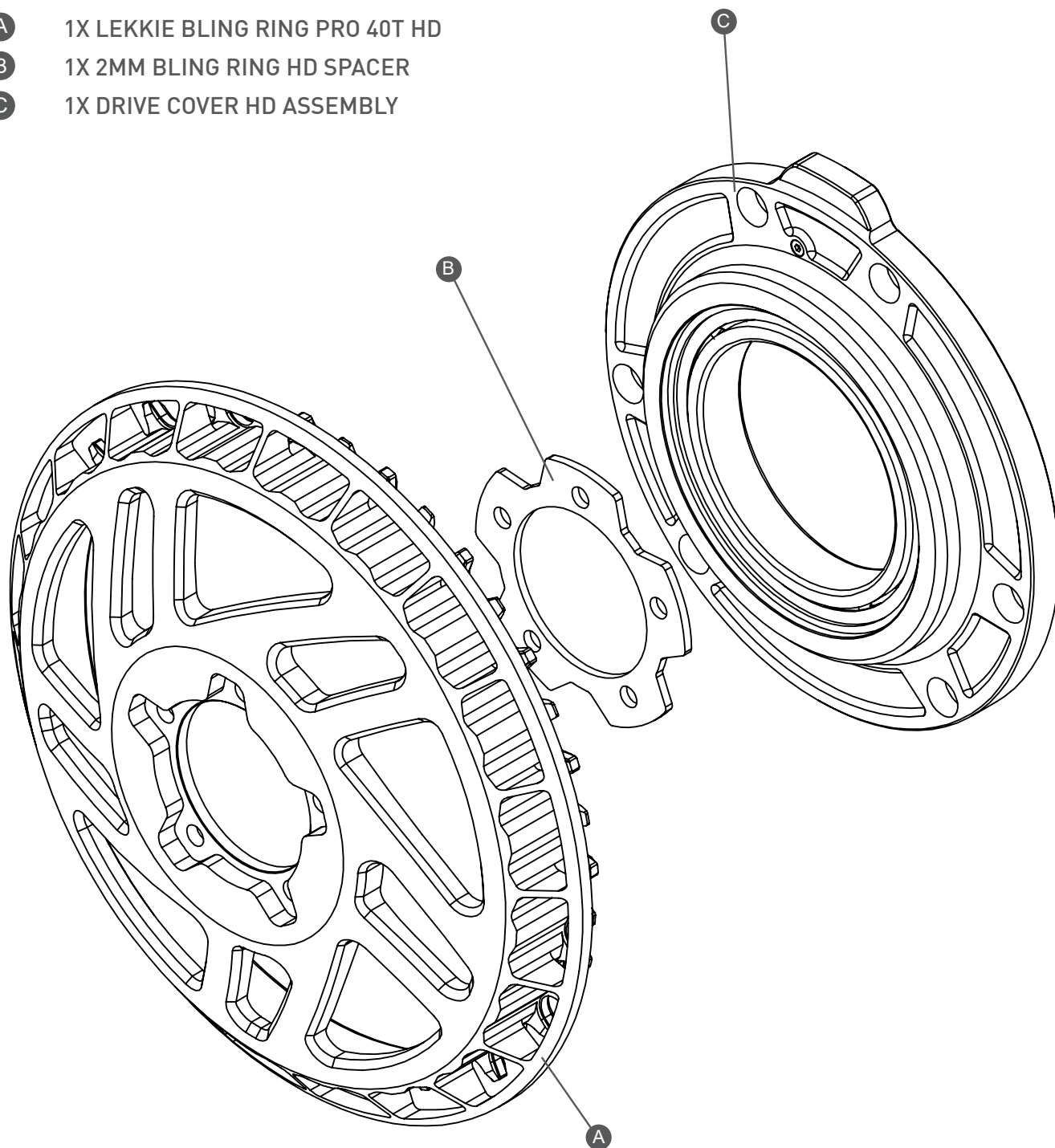


PARTS LIST

FOR BLING RING PRO 40T HD PACKAGE
COMPATABLE WITH **BAFANG BBSHD, M625, M325**

INCLUDES

- A** 1X LEKKIE BLING RING PRO 40T HD
- B** 1X 2MM BLING RING HD SPACER
- C** 1X DRIVE COVER HD ASSEMBLY



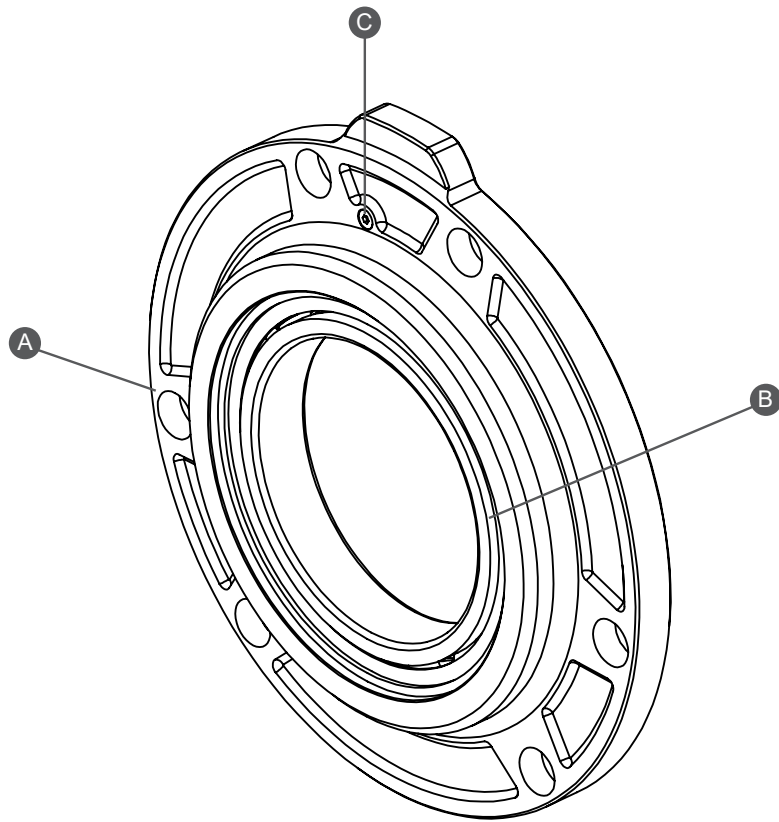
TIPS AND TRICKS

YOU MUST INSTALL THE **LEKKIE DRIVE COVER HD FIRST**

INCLUDES

- A** 1X DRIVE COVER HD V2
- B** 1X MAIN BEARING
- C** 1X GREASE PORT SCREW

NOTE: FOR V2 OR NEWER



TOOLS REQUIRED

- 8mm hex/Allen key
- 4mm hex/Allen key
- Rubber mallet
- Bearing press
- Moly-grease
- All purpose lithium grease
- High viscosity cassette grease
- Loctite 243
- Scribe/fine tip marker
- Small metal file

When installing the Lekkie Drive Cover HD you will require some tools and some hands on experience with your motor. If you do not have the required tools, confidence or skills to install this take your motor to your local bike shop or engineering shop and they should be able to help you out.

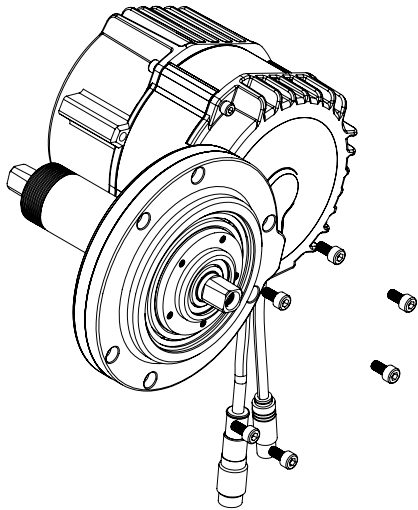
INSTALL TIPS

Here are some tips to keep in mind while completing the install.

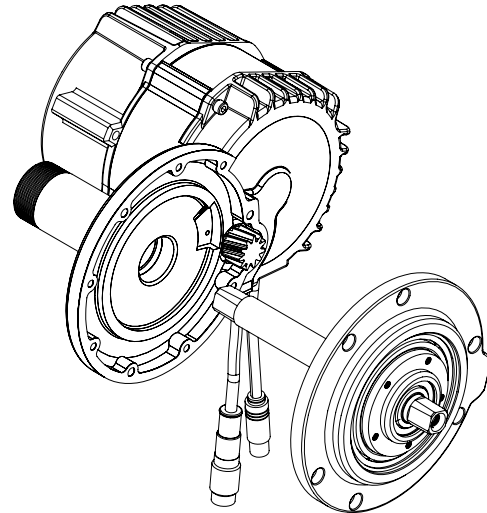
- Check paper gasket and replace if damaged.
- When the motor is open check all bearings and replace/re-grease if need be.
- To keep everything running smooth make sure you grease all moving metal to metal surfaces.
- Clean any excess grease out of the motor while it is open.
- Clean and grease the main gear and pinion.
- Always grease the axle taper before installing cranks.

DISASSEMBLY

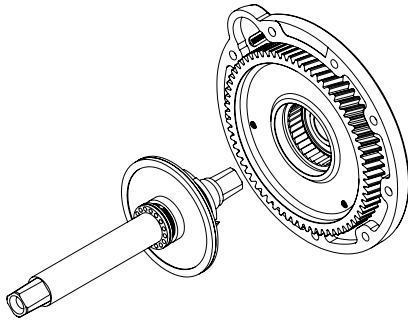
Before you can install the Lekkie Drive Cover HD you need to remove the stock Bafang cover and bearing. This also gives you the opportunity to check the condition of your drive gear, pinion and bearings and replace any parts as needed. It is important to keep the internal components free from dirt/grit, so before opening the housing thoroughly wipe down external surfaces and keep a clean work area to ensure it all goes back together without contamination. The drive cover can be fitted without the need to remove the motor from the bike, however you will need to remove both cranks and the chainring first.



1. Using a 4mm hex/Allen key unscrew the six screws holding on the stock cover and remove.

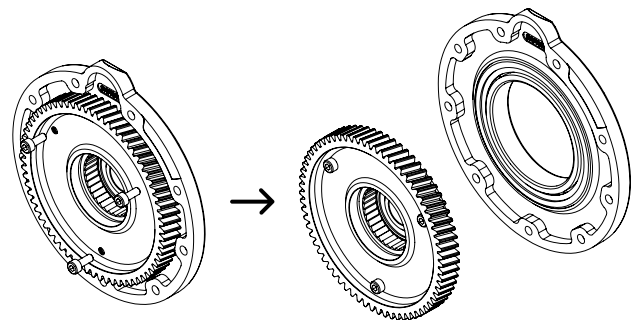


2. Tap the axle from left side of motor, loosening the drive assembly and sliding it out towards the drive side.



3. Holding the stock drive cover, gently tap the axle from the drive side and pull out the axle assembly.

Note: This will remove the whole axle assembly so be careful not to lose any parts.



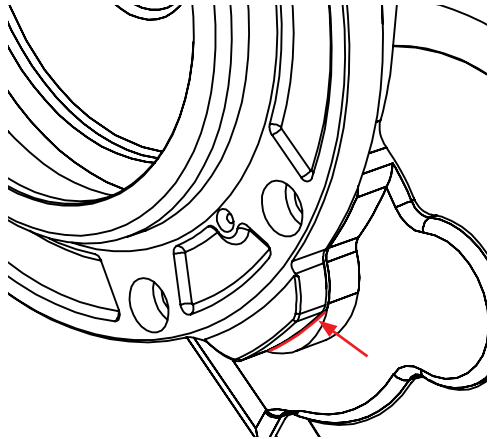
4. Screw 3 M4 screws into the back side of the drive gear until they are touching the bearing. (If you don't have any m4 screws on hand, the screws holding the controller on are M4).

To remove without jamming, start turning one screw one turn, then the next screw one turn and so on, repeating in a circular pattern until the gear is released.

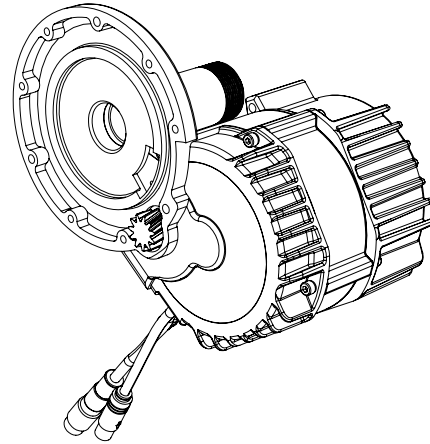
Note: Occasionally the large bearing comes out of the OEM drive cover. It needs to be removed from the gear Assembly before proceeding.

MOTOR MODIFICATION

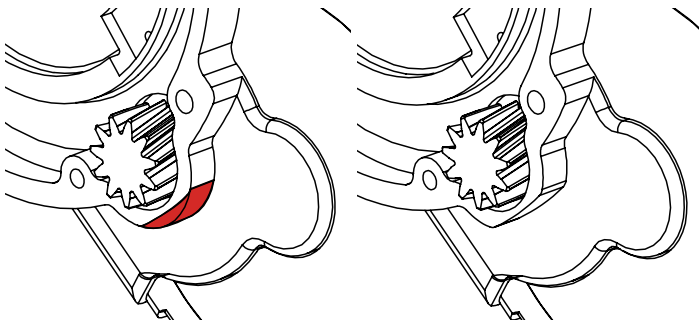
You must complete the motor modification steps or your Bling Ring PRO 40T HD will hit your motor and damage the Bling Ring voiding warranty. This modification will require you to file a small amount of material off your motor. When completed correctly, the performance and durability of the motor will not be effected.



1. Place the Lekkies Drive Cover HD on the motor and mark the edge of the cover, scribing onto the motor housing in the area shown.

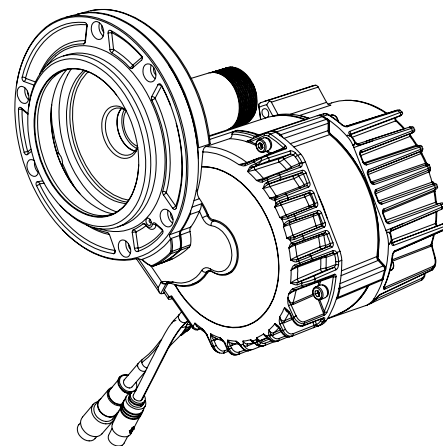


2. Remove the Lekkies Drive Cover HD. Note the scribed mark showing material requiring removal.



3. Using a file, carefully remove highlighted material down to the scribed line making it the same shape as the Lekkies Drive Cover HD. You may also need to trim the paper gasket.

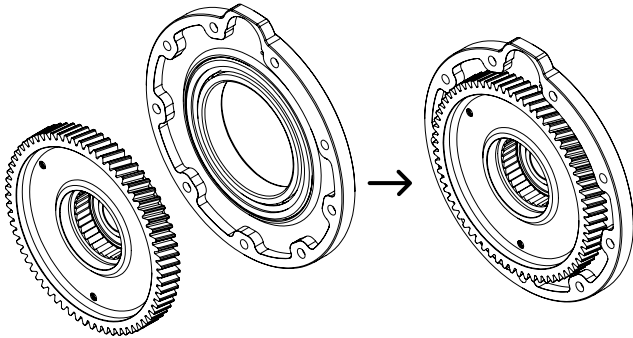
Note: We advise covering the pinion and inside of the motor so that the metal filings do not make it into the motor.



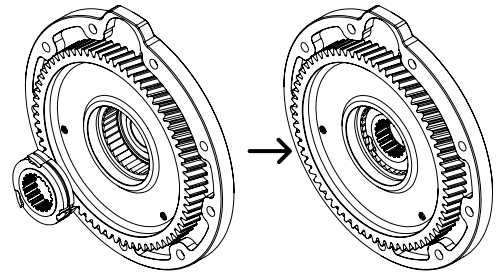
4. Place the Lekkies Drive Cover HD on the motor and check the shape, it must sit flush with the motor cover. Repeat previous steps if more material removal is required.

ASSEMBLY

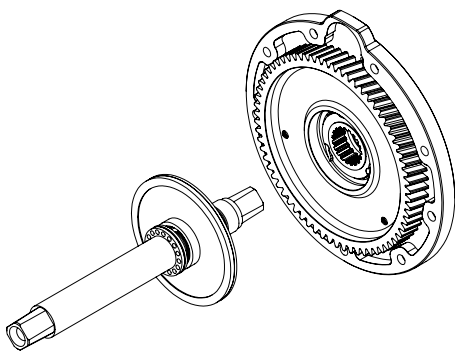
Re-assembly is easy and painless. When re-assembling the motor, make sure you grease all metal-on-metal parts. Do not force any parts and if you are unsure, stop the assembly and contact us.



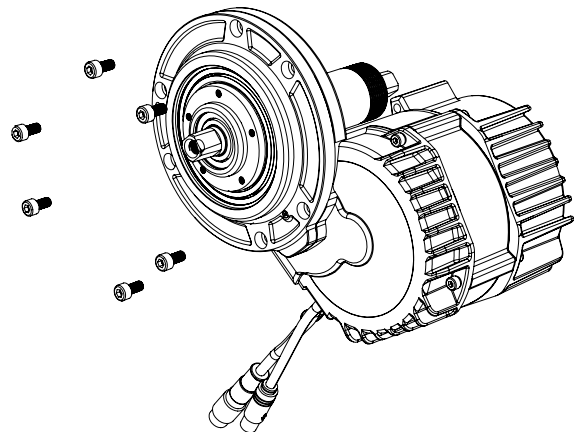
1. Press the main drive gear into the new bearing in the Lekkie Drive Cover HD.
Note: Grease the inner edge of the bearing.



2. Insert the clutch assembly into the drive gear, making sure the pawls are engaging the correct way.
Note: If the motor is well used, check that the Pawls in the clutch move freely and are not worn. You can lubricate the clutch with a light coating of a medium viscosity oil used to maintain cassette freewheels.



3. Slide the remaining axle assembly in.
Note: Grease all touching surfaces to make maintenance easy.



4. Install paper gasket then slide the new drive assembly in. Clean and apply Loctite 243 to the threads of the six M5 drive cover bolts. Tighten to 6Nm.
Note: Replace gasket if damaged.

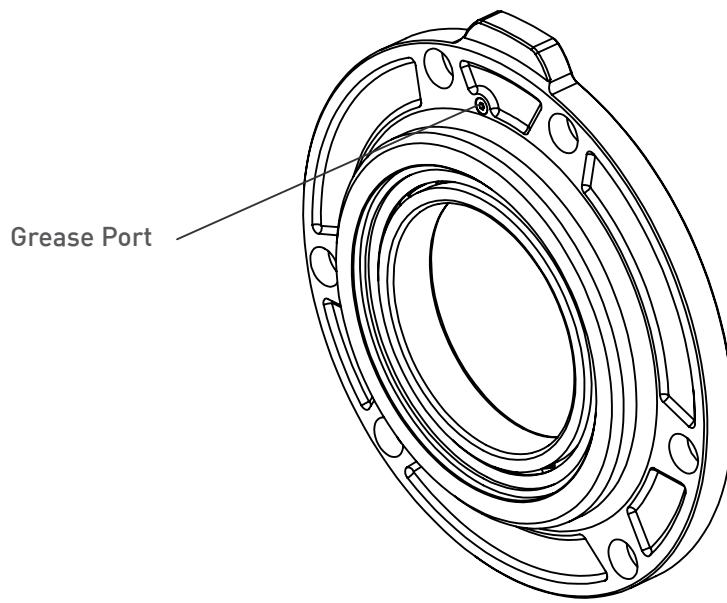
GREASE PORT

To keep your motor running its best its important to regularly grease the main drive gear and pinion. We have added a grease port to the Lekkie Drive Cover HD V2 to allow this.

To do so simply remove the grease port screw and using a grease gun, squirt moly-grease in while slowly turning the motor.

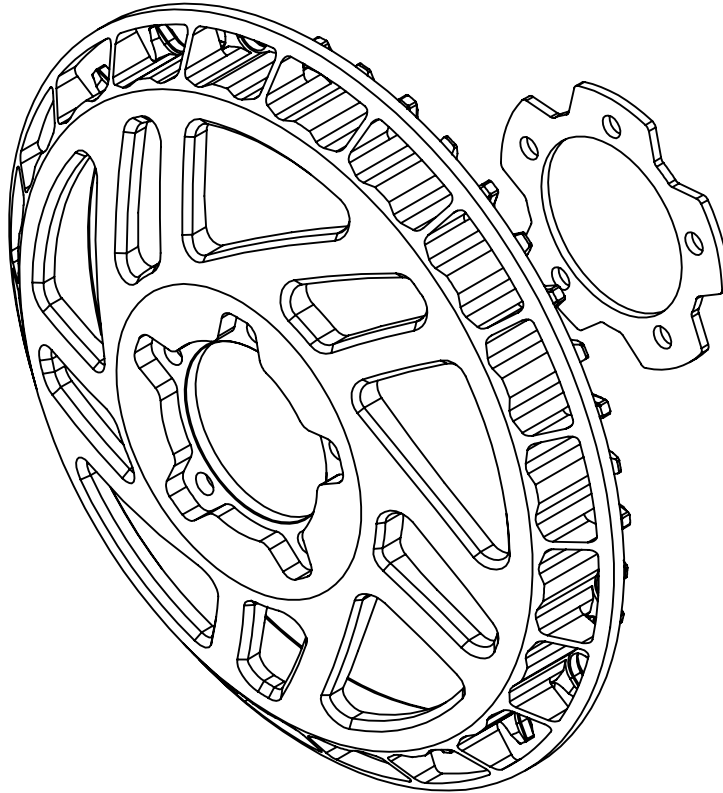
The port is positioned at the junction of the drive gear and pinion.

Note: The grease port is only on Drive Covers V2 or later.



TIPS AND TRICKS

NEXT YOU CAN INSTALL THE **BLING RING PRO 40T HD**



TOOLS REQUIRED

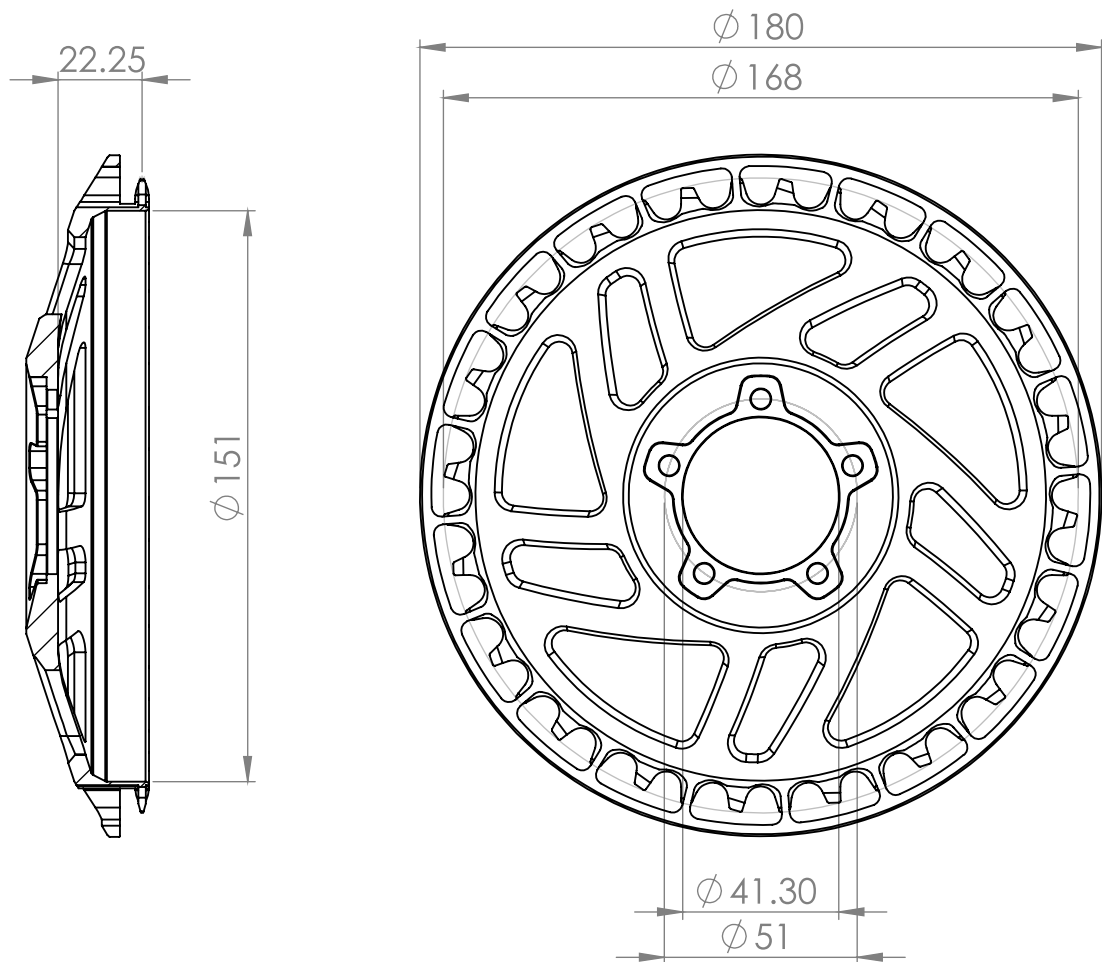
- 4mm hex key

INSTALL TIPS

- Double-check clearance between the inside edge of the chainring and the motor (where material has been removed). ensure the ring turns freely without rubbing.
- Clean and lubricate axle with a multi-purpose grease before install.
- Apply Loctite 243 to bolt threads.
- Always install a new chain when installing a Bling Ring
- If you are spacing the ring out by more than 2mm, use longer bolts (minimum 6mm thread engagement into the motor).
- Make sure when you install your Bling Ring you have at least 1.5mm gap between wide tooth and chainstay to allow flex.
- Tighten mounting bolts to 6Nm
- Try to get the chainline to the centre of your cassette - see below for details.
- Clean and lubricate chain and ring regularly to maximise chain and chainring lifespan.
- DO NOT use half links in the chain.
- Always grease axle tapers before re-installing cranks.

DIMENISONS

Here are the basic dimensions of the Bling Ring.



Note the package includes a 2mm Spacer so that you can space the Bling Ring out to clear chain-stays but you may require more spacers.

Remember to install longer bolts if you are spacing the Bling Ring out.

The Bling Ring PRO was designed with an extra 2mm offset over the standard Bling ring HD, so that users with 73mm BB frames could try get that perfect chainline.

If you are building with a 73mm BB frame,(or have had to space your motor out on the drive side) try installing without the spacer first. You must have at least 1.5mm gap between the ring and chain-stay, space out as required.

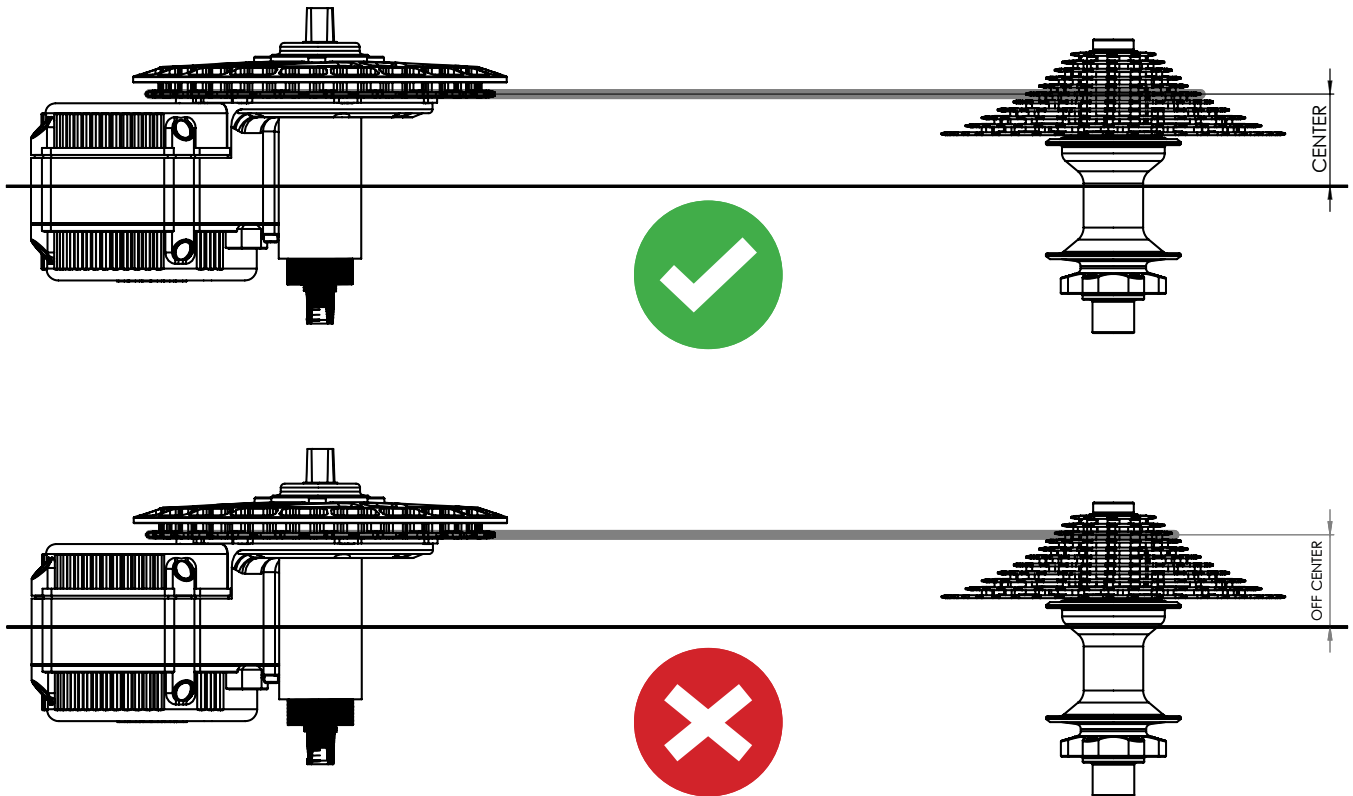
Measurements in mm, illustration not to scale.

CHAINLINE

When building your machine you ideally want to replicate the chainline that was on the bike before you converted it. Normally you would aim to have the chainline in-line with the centre of your cassette.

The Blingring PRO is designed to give you the best possible chainline however sometimes you may need to adjust your offset using spacers to get that chainline perfectly suited to the unique geometry of your build.

Some frames will not allow for a central chain line. With modern 1x mountain bikes it is often the chainstay width that dictates how close the motor/Chainring can be run. In this case do the best you can to get the chain central.

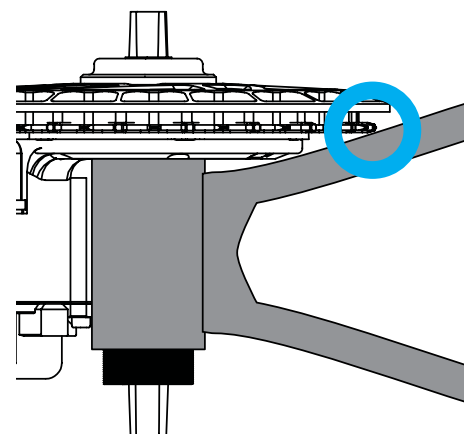


CHAIN COMPATIBILITY

The Lekkie BLINGRING PRO is compatible with most chains up to 12-speed but suits 10-12-speed best. Some chains do not fit so if you are unsure please get in touch with us.

GEOMETRY

The 40T, 42T and 46T Blingring offsets give you the best possible chainline without interfering with the motor. However, chainstay width/interference is often the limiting factor when building your bike - the larger the sprocket the closer the chainstay gets, so you may need to use a spacer to clear the chainstay.



WARRANTY

At Lekkie we don't accept anything but the best workmanship and quality. If a part has slipped through our QC system and made it to your hands let us know and we will put it right.

If one of our products fails we want to know so we can make our products better. If you destroy a lekkie product in extreme use tell us. We can learn from this and sell you something so suit your needs.

If you are in anyway unhappy with your Lekkie product get in touch so we can put it right.