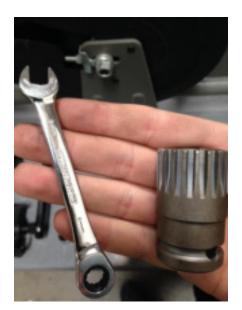
## **Replacing the Bottom Bracket (Part#21)**

## **Tools needed:**

8mm wrench

**Shimano/ISIS Bottom Bracket removal tool** 

Allen Wrench or a flat screwdriver



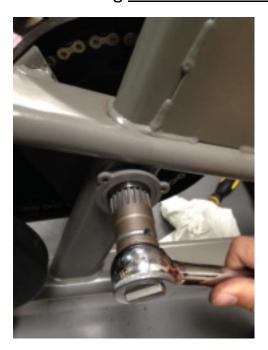


**Step 1:** Using the 8mm wrench remove the 3 Hex Screws (part#39). Once the screws are removed, remove the Bottom Bracket Locking Plate (part#38).

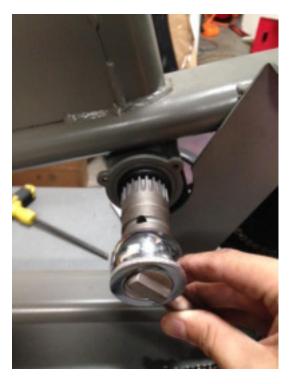
**NOTE:** Repeat this step on the right side of the machine once you have removed the Chain Guard (part#20) and the Chain Wheel (part#19).



**Step 2:** Using the Allen wrench or the flat screwdriver tap the Bottom Bracket Lock ring **counter clockwise**.



**Step 3:** After the Bottom Bracket Lock ring is removed install the Shimano/ISIS Bottom Bracket removal tool. Once the tool is installed rotate the Bottom Bracket shell **counter clockwise** until it comes off.



**Step 4:** On the right side of the machine install the Shimano/ISIS Bottom Bracket removal tool. Once the tool is installed rotate the Bottom Bracket shell **clockwise** to remove.

Step 5: Install the new Bottom Bracket (part#21) using the Shimano/ISIS Bottom Bracket removal tool. Turn the Bottom Bracket counter clockwise to secure. Once installed replace the Bottom Bracket Locking Plate (part#38) and using the 8mm wrench reinstall the 3 Hex Screws (part#39).

**Step 6:** On the left side of the machine install the left side bottom bracket shell. Using the Shimano/ISIS Bottom Bracket removal tool secure the Bottom Bracket shell by rotating it <u>clockwise</u> until it is secure. <u>NOTE:</u> when installed properly the bottom bracket will have no excess play or movement when rotating the axle.

**Step 7:** Re-install the Bottom Bracket Lock ring by rotating it **clockwise.**Then using the Allen wrench or the flat screwdriver tap the Bottom
Bracket Lock ring **clockwise** until it is secured and quite tight.

**Step 8:** After the Bottom Bracket Lock ring is installed replace the Bottom Bracket Locking Plate (part#38) and using the 8mm wrench reinstall the 3 Hex Screws (part#39).

## **Install is done!**

**<u>Tip:</u>** Tighten the Pedals (part#15, part#16) regularly.

Double check all four of the Crank Fixing Bolts (part#42) regularly.