How to: Main Drive Gear Replacement (GB2.0 only)

Maestro*, Maestro Plus*, Encore, Virtuoso*, Preciso*

Time: 20 min
Difficulty: Easy
Parts: Main Drive Gear
Additional Resources: Case Removal (Video/PDF)

*Only applies to these models when GB2.0 is installed.

*** Unplug the grinder from power supply ***

Some notes before beginning:
- Units with Gearbox 1.0 require the GB2.0 upgrade. The current Main Drive Gear is not compatible with Gearbox 1.0.
- Units with serial numbers greater than 120000 will have GB2.0 by default. This guide applies to those units.

Remove the case using our Case Removal Instructions
Lift the safety interlock switch up and off of its posts. Let it hang to the side of the grinder.

Remove the three chassis screws securing the gearbox/motor assembly.

Lift the motor/gearbox assembly up and away from the chassis. Unplug the motor from the board.
Remove the four screws securing the motor and motor plate to the gearbox.

Remove the 13mm gear nut with pliers by turning counter-clockwise.

Hold the gearbox in your hand with the cone burr facing down. Using a plastic, wooden, or rubber tool, push or hammer the drive shaft down. Do not use a metal punch or the tip of the driveshaft will be damaged and require replacement. The burr and shaft should fall out of the gearbox.
Discard the damaged drive gear. There will be 1 or more shims between the drive gear and gearbox housing. Place these in a safe place with the new drive gear.

There will be several shims between the paddle wheel and gearbox housing. Keep the paddle wheel and washers on the driveshaft with the cone burr for ease of reassembly. Note that there may be shims stuck to the gearbox housing.

*Reference GB2.0 guide if you encounter shimming problems*

Slide the cone burr/driveshaft/paddlewheel/washers assembly through the gearbox. Install the shim(s) between the drive gear and gearbox housing.
Press the drive gear into place until flush.

*If having difficulty getting flush, make sure paddle wheel pegs are indexed into cone burr. If needed, use a socket as a block for the cone burr in order to use two hands on the gear.

Install the washer and nut. Tighten with pliers or 13mm socket.
Attach the motor/motor plate to the gearbox. Tighten screws in a X pattern.

Install the gearbox/motor assembly back into the chassis. Be sure to plug the motor into the board.

Route the right-side safety interlock wire as pictured.
Set the safety interlock back onto its posts, ensuring that the button portion faces in toward the adjustment ring.

Reinstall the case, reassemble and enjoy.

See our Case Removal guide for installation troubleshooting.

If you encounter any problems, or have questions about this guide, please contact support@baratza.com