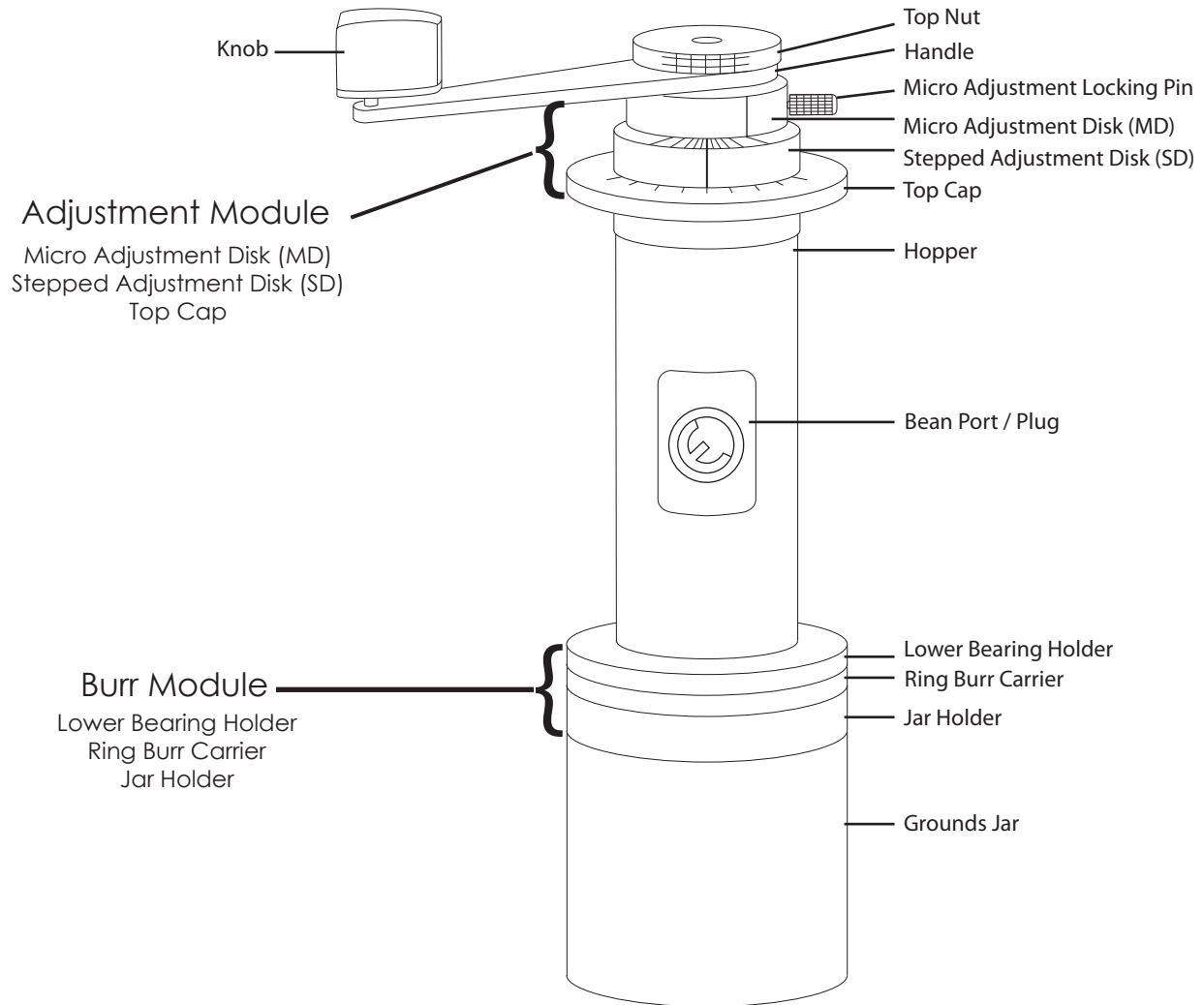


# Lido OG Basic Manual

This instruction manual covers the basics that you need to get started using the Lido OG grinder. There is a second document called the "Deep Dive Manual" (DDM) which gives in depth detail and expanded information from this basic manual. The manuals, schematic and links to videos are available here: <https://www.oehandgrinders.com/og-manuals> There is a 3rd area for people who never read manuals - it is called the Hand Grinder Parts section on our website, [oehandgrinders.com](https://www.oehandgrinders.com), where you can find repair parts... :)

## Parts of the Grinder:



Install the handle so it points in the direction away from the locking pin.

Do NOT change the brass Micro Adjustment Disk setting at this time.

Your grinder arrives with the adjustment set at Micro Adjustment Disk (MD) = zero, Stepped Adjustment Disk (SD) = zero. Set SD = 500, grind 10 grams of Coffee beans to lubricate the burrs.

→ **ALWAYS turn handle in clockwise direction** ←

Set SD back to zero, turn handle clockwise (CW) to observe what zero feels like. This tactile information will be important later...

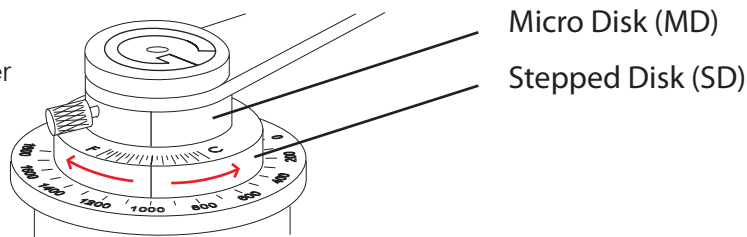
Note: Numbers on the Top Cap equal Microns ( $\mu\text{m}$ ) of Vertical Cone Burr Movement (VBM), not burr gap or particle size. 1000 $\mu\text{m}$  equals 1 millimeter.

# Adjusting the Grind Size

Large changes in grind size are made by turning the Stepped Adjustment Disk (SD) to the desired number. Each step is 100 Microns ( $\mu\text{m}$ ) VBM. The SD is self locking.

TIP: As with all grinders, when moving to a coarser setting, move past that setting, and back to your desired one.

Dialing in for your target grind size is like any other grinder - set, grind, observe, test, & adjust. Fine tuning between the SD Setting is done using the Micro Adjustment Disk (MD)



Micro Disk (MD) adjustment Procedure:

Small changes in grind size are made by loosening the Micro Adjustment Locking Pin and turning the MD in the desired direction - Align the Micro Disk Reference Mark (MDR) to the Micro Scale Center Mark (CM). Hold the handle still with one hand, and move the disk with the other. Tighten pin firmly after adjustment.

Each MARK on the Micro Adjustment Disk Scale equals  $5\mu\text{m}$  of VBM.

Moving the MDR in the COARSE direction (C) ADDS to the MD setting ( $+\mu\text{m}$ ).

Moving the MDR in the FINE direction (F) SUBTRACTS FROM the MD setting ( $-\mu\text{m}$ ).

Example 1:

SD=  $500\mu\text{m}$

MD= 2 marks C ( $10\mu\text{m}$  Coarse direction)

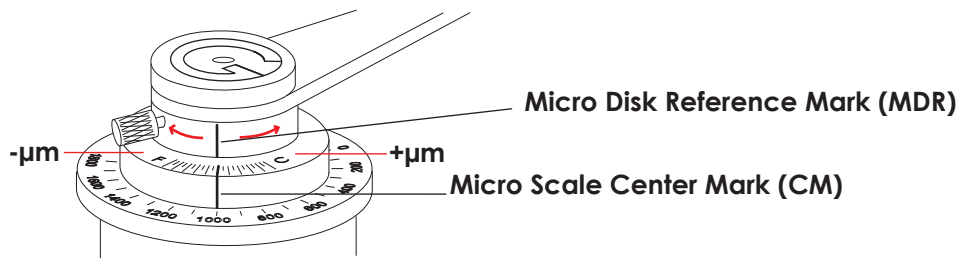
Setting =  $500\mu\text{m} + 10\mu\text{m} = 510\mu\text{m}$

Example 2:

SD=  $500\mu\text{m}$

MD= 4 marks F ( $20\mu\text{m}$  Fine direction)

Setting =  $500\mu\text{m} - 20\mu\text{m} = 480\mu\text{m}$



The MD Scale has a total of  $100\mu\text{m}$  of marked adjustment:  $-50\mu\text{m}$  in the Fine, and  $50\mu\text{m}$  in the Coarse direction.

For larger changes use the SD to move a step, then adjust the MD.

Over extending the MD setting beyond the  $50\mu\text{m}$  on each side makes all of your VBM numbers less meaningful...

Example 3:

Target  $580\mu\text{m}$  Use  $600\mu\text{m}$  SD minus  $20\mu\text{m}$  F MD adjustment. NOT  $500\mu\text{m}$  SD plus  $80\mu\text{m}$  C MD.

You will generally be using the stepless Micro Disk for espresso. The layout of the Micro Disk Adjustment Scale is a reflection of the use of this Disk in dialing in an espresso grind. We recommend you write down your setting as you dial in. If you have changed the Micro setting keep track of how far you have moved it, and in which direction. In order to maintain meaningful numbers you will need to move the MDR Mark BACK to the Center Mark - in other words, if you subtracted microns by moving the Micro Disk in the fine direction you need to move back in the coarse direction the same amount to maintain a relevant zero.

Example 4:

OG is set at  $540\mu\text{m}$  ( $500\mu\text{m}$  SD+  $40\mu\text{m}$  MD C) You want to change it to  $570\mu\text{m}$ . You NEED to move the MD back  $40\mu\text{m}$  in the F direction to the original position, THEN move the SD to  $600\mu\text{m}$ , and the MD to  $30\mu\text{m}$  F.

$600\mu\text{m} - 30\mu\text{m} = 570\mu\text{m}$  (the desired target).

It really is a lot easier to do it than it is to write about it...

Changes made on the MD will always be reflected in the overall setting - SD & MD always work together.

Example 5:

Espresso Setting  $540\mu\text{m}$ . If you change ONLY the SD from  $500\mu\text{m}$  to  $900\mu\text{m}$ , and do not move the MD setting, the total setting will move from  $540\mu\text{m}$  to  $940\mu\text{m}$ .

If you lose track of your settings it's very easy to rezero the Micro Disk - See page 5.

## General Grind Setting Guide

Caveat: Given the wide variations in beans (freshness, origin, processing, roast level, etc.), machines, techniques, trends, fads, and expectations, we can ONLY provide some general recommendations of the initial SD settings to use for dialing in your grind - YMMV.

Extraction Method	Initial SD setting before Dial In
Turkish / Ibrik	100-200
Espresso	
Pump	300-400
Manual Level	300-400
Spring Lever	500-600
Moka Pot	600
Aeropress	700
Percolation	
V60	1200
Kalita / Kono	1600
Full Immersion*	1900

\*If you need a full immersion grind, coarser than the 2000µm setting, this can be achieved by creating a grind range offset See DDM for details.

## Take it apart...

The basic motivation for taking the grinder apart, and putting it back together is cleaning. Keep in mind that anytime you take the grinder apart you will need to ReZero the adjustment system. You will not need to realign the burrs, just ReZero the adjustment system.

Cleaning the Lido OG may require various levels of disassembly. Without disassembling you can simply brush off the external parts from below, and blow out the grinder with compressed air or a hand blower.

Taking the grinder apart requires no tools.

Remove the Top Nut, handle, and the Jar.

Loosen the MD Locking Pin a couple of turns while holding the burr still with one hand from below.

While holding the burr still from the below, turn the MD a few full turns, Counter Clockwise (CCW - Left).

While the MD is still threaded on the axle push the brass MD downwards against the Top Cap of the grinder and hold it firmly. While holding the MD against the Top Cap, continue unthreading by turning the axle/cone burr CCW (Left) and giving a slight pull of the axle/cone burr until the Micro Adjustment Disk is unthreaded from the axle.

Once the axle is free pull it out through the bottom of the grinder and set aside.

Remove the MD and the Needle Bearing Thrust Washer Set.

Now you may brush off the cone burr, and brush out the ring burr. Blow out with air, etc.

If you choose to proceed further, you may unscrew the Burr Module from the bottom of the Hopper Tube.

The Burr Module is Reverse Threaded, to remove, turn it Clockwise (CW - Right) while holding the Hopper still.

Clean with brush / air as desired.

The Grind Adjustment Module may also be removed from the Hopper, it has a Right Hand Thread so may be removed by turning CCW (Left), while holding the Hopper still.

You may brush out, wipe out, or wash the Hopper Tube.

DO NOT PUT ANY PART of the OG Grinder in the dishwasher.

There is NO cleaning or maintenance issue that requires disassembly of the Grind Adjustment Module.

## Put it together... Reassembly is the reverse:

Install the Grind Adjustment Module on top of the Hopper by turning CW (Right).

Install the Burr Module on bottom by turning CCW (Left).

Tighten both the Modules securely onto the Hopper.

### Set the SD to one step BELOW zero.

Install the axle/cone burr assembly carefully through the Roller Bearings. (see fig. 1)

Install the Thrust Washer Set on the axle (Needle Bearing goes between the washers) (see fig. 2)

**IMPORTANT:** This process is critical to avoid/prevent any cross threading of the fine threads of the Micro Disk, or axle. This procedure avoids damaging the threads:

Lay the grinder on its side.

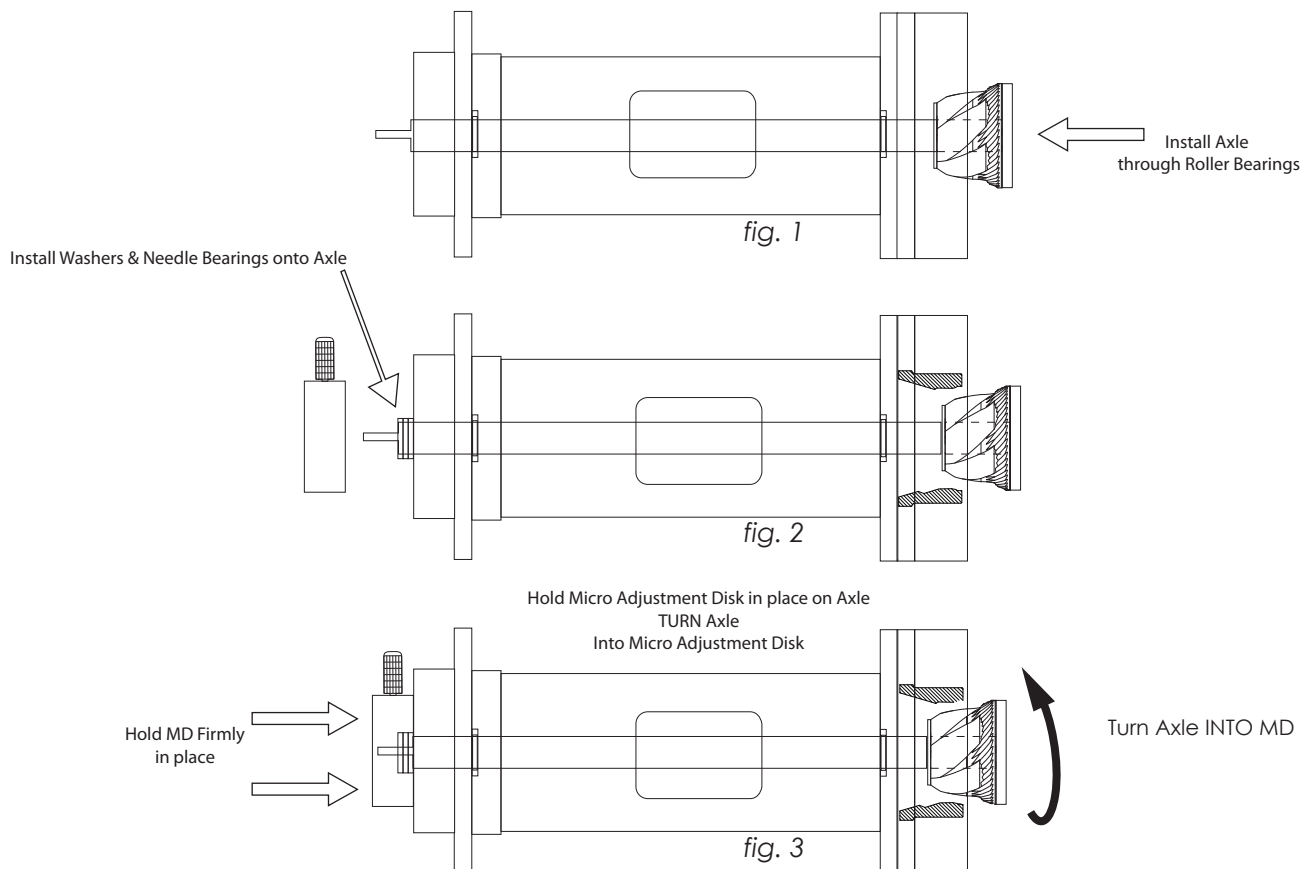
Install the MD (Locking Pin should be loose) and push it into place on the top of the grinder, holding it firmly against the top with your fingers - **Do not turn the disk, or attempt to thread onto the Axle.**

Push & turn the axle/cone burr assembly CW to **thread the axle INTO the Micro Adjustment Disk thread.** (see fig. 3)

Continue turning the axle/cone burr about 5-10 revolutions until the threads have **FULLY** entered the Micro Adjustment Disk - this will start the threads properly and avoid thread damage.

Once fully started on the axle, press the cone burr/axle up into the ring burr and hold firmly in place with one finger and smoothly spin the Micro Adjustment Disk CW (Right) with one finger (using the locking pin as the tool), until it naturally stops -- Do NOT Force or overtighten the Disk - just spin until it stops.

Tighten the Micro Adjustment Locking Pin, install the Jar, Handle, and Top Nut. Make sure the Micro Adjustment Locking Pin is tight.



# Final Checkup (Setting Adjustment Range):

When setting up the adjustment system, this should be the status of the Adjustment Module components:

1. Micro Disk should be turned all the way down until it stops on the axle thread and the locking pin should be tightened firmly.
2. Stepped Disk is set at zero.
3. Handle and Top Nut are in place.

Then, follow this procedure:

Using normal force, turn the SD one full click below zero.

If you cannot turn the SD one full click below zero, hold the handle still, loosen the MD Locking pin and turn the MD a few marks in the Coarse direction. Then check if you can turn the SD one click below zero (make sure you tighten the locking pin each time you check!)

Keep doing this until you achieve one full 'snappy' click of the SD below zero. When the MD is tightened it should not click farther than this first click (you've moved in the C direction too far if you can click 2 below zero)

This is the starting point of the adjustment range. Click back to zero & your grinder is ready to use.

At zero you should feel a slight dragging of the burr (on a new burr this will be apparent!) If the burr teeth gnash, lock, or drag heavily, move the MD farther in the C direction until turning the burr at the zero mark is generally smooth, and fairly free to turn - there may be some light dragging, but nothing rough.

Well seasoned burrs will have a zero feel that is very smooth, and quiet. If you have coffee in the burrs it will be notably smooth and quiet.

Be sure to tighten the locking pin each time you make an adjustment to the Micro Disk.

You can check, or ReZero at any time, by repeating the above procedure (this is in case you lose track of your MD setting on Fine Dialing in situations)

Other concepts, such as alignment, theory, and special cases are presented in the Deep TIPDive Manual.