



# USING THE LCM ULTRA HD WHEEL BALANCING SYSTEM

SKU: 22-LCM-40

## KIT DIAGRAM (Image #1)

1. LCM Ultra Spacer Disc
  - 22-LUSD-40
2. LCM Ultra Collet (3 Included in Kit)
  - 22-LUC(1,2, and 3)-40
3. LCM CenTor Studs (4 Styles Included)
  - 22-LSTUD-(A,B,C, and D)
4. LCM CenTor Plate
  - 22-CTP-40

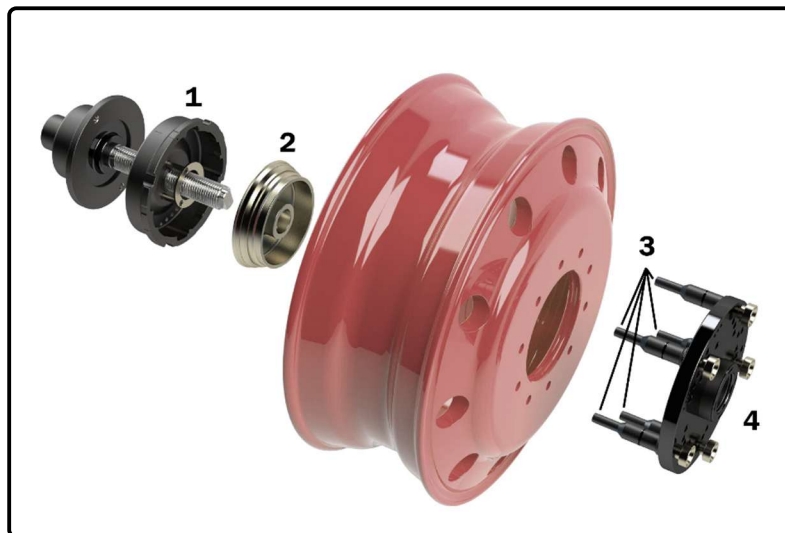


Image #1

## SETUP

1. Before approaching the balancer, determine what your wheels **Hub Bore Diameter** and **Lug Pattern** are. Use the included LCM Ultra System Chart to find these, but always measure to verify.
  - Ensure that the tapered side of the collet comes into direct contact with the edge/rim of the center bore. Always measure using a PCD Gauge to verify Lug Pattern - common examples below in Table #1.

LCM Ultra Collet #1 (22-LUC1-40)					
Bolt Pattern	Hub Bore ø				Applications
8 x 6.5"	4.56"	4.6"	4.77"	4.88"	GM, Dodge/RAM
8 x 180mm	124mm				GM
8 x 170mm	125mm				Ford

LCM Ultra Collet #2 (22-LUC2-40)				
Bolt Pattern	Hub Bore ø		Applications	
10 x 7.25"	5.25"	5.46"	Ford, GM	
6 x 180mm	138.88mm		Ford	
8 x 200mm	142mm		Ford, RAM	

LCM Ultra Collet #3 (22-LUC3-40)			
Bolt Pattern	Hub Bore ø	Applications	
8 x 120mm	154mm	GM	
6 x 205mm	161mm	Mercedeses, Dodge, Freightliner	
6 x 8.75"	164mm	Hino, Isuzu	
8 x 225mm, 10 x 225mm	170mm	Ford	

Table #1



## SETUP (cont.)

2. Use the LCM Ultra System Chart to pick whichever **LCM CenTor Stud** is appropriate for your application. Insert the stud into the holes in your **LCM CenTor Plate** corresponding to your wheels Bolt Pattern.
  - Ensure that studs are inserted into the side **without** the colored labels. The colored labels will need to face away from the wheel balancer when installed.
  - Many studs are affixed to the **LCM CenTor plate** with a thumb-nut – Thread on this nut and hand tighten.

## INSTALLATION

3. Install the **LCM Ultra Spacer Disc** on the spindle shaft of your wheel balancer, with the open side (As demonstrated in Image #2) facing **AWAY** from your balancer.
  - Included in your kit are multiple Cap Head screws. These are installed by inserting them through your wheel balancers Spindle Flange, and threading them into the **LCM Ultra Spacer Disc**. This is *NOT* always required but encouraged when balancing, especially heavy wheels.
  - The highlighted portion of Image #2 shows the **Spring Extension**, which slides axially to allow proper engagement of the spindle hub spring on your wheel balancer, and your cone or collet.

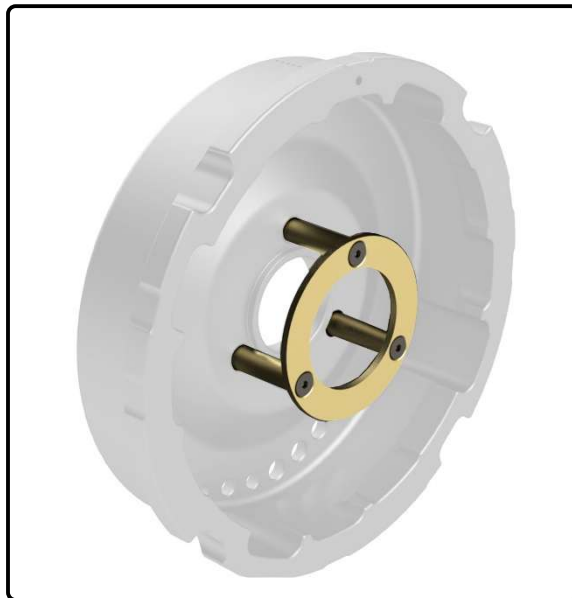


Image #2



## INSTALLATION (cont.)

4. Install the applicable **LCM Ultra Collet** on the shaft of your wheel balancer, and ensure that it engages with the spring extension, which in turn engages with the sprung portion of the balancers spindle hub.
5. Mount the wheel on your balancer, followed by the **LCM CenTor Plate** Assembly onto the balancer. Again, the **LCM CenTor Plate** should always be positioned with the colored labels facing **AWAY** from the balancer. Ensure that the **LCM CenTor Studs** are seated properly in the lug holes of the wheel.
  - Some of the **LCM CenTor Studs** (Stud A + B) have supports that extend beyond the collet, and rest on the **LCM Ultra Spacer Disc**. You may need to slightly rotate the assembly to ensure that everything is seated properly. See Image #3 for example of proper assembly.

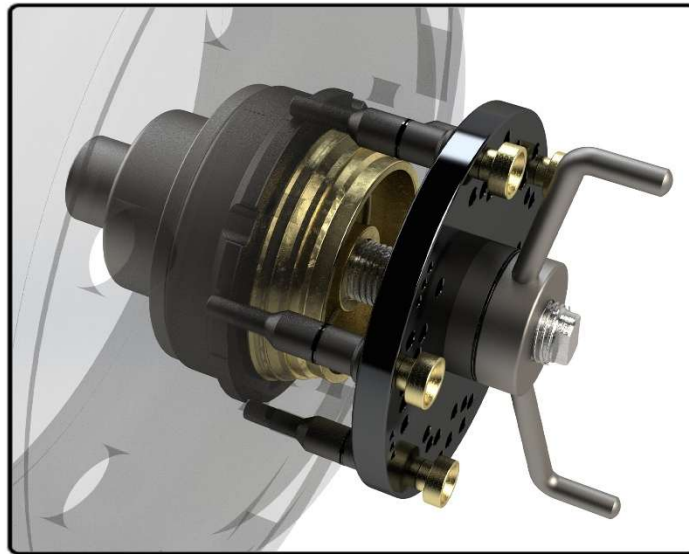


Image #3

6. Install your wing nut, or auto-clamping handle, following manufacturers recommendations. Ensure the entire assembly is snug and does not 'wobble' on the spindle shaft.
7. Follow wheel balancer instructions to balance wheel and tire assembly.