

Wheel Replacement for Grinder with Dynamic Brake

Instructions

This information supplements the installation instructions found in Manual MN903 for Baldor Grinders equipped with dynamic brake. Extra care must be taken when replacing the large grinding wheels. This supplement describes the proper procedure for the replacement of the wheels.

Safety Information:

This grinder is equipped with a dynamic brake. For your own safety, read the instruction manual before operating the grinder and before removing or installing grinding wheels.

1. Disconnect AC Power
Disconnect grinder from AC power source.
2. Inspect each Wheel
Carefully inspect the grinding wheels for damage.
Never install a wheel that shows any sign of damage such as a chip or crack on any surface.
3. Remove Outside Flange (Refer to Figure 1)
 - a. Remove wheel guard cover.
 - b. Remove cotter pin.
 - c. Remove castle arbor nut.
 - d. Remove spacers and the outside flange.
 - e. Remove drive pin from shaft (visible after removal of outer flange).
 - f. Remove used grinding wheel (if installed).
 - g. Verify that the inside flange is tight against shaft shoulder and the drive pin is installed in the keyway.
4. Install Outside Flange (Refer to Figure 1)
 - a. Carefully inspect each wheel for damage.
If damaged, remove and discard the wheel and install a new wheel. **Never use a defective wheel.**

WARNING:

Never install a wheel that is damaged, such as a chip or crack on any surface. A damaged wheel can disintegrate while rotating at a high RPM or when work is placed against the wheel. This can severely harm the operator or others in the area.

- b. Install grinding wheel on shaft.
 - c. Install drive pin in keyway for outside flange.
 - d. Slide outside flange onto shaft and line up the drive pin with the slot in the flange.
Outside flange must be installed as shown in Figure 1.
 - e. Install castle arbor nut onto threaded shaft. Finger tight only.
 - f. Verify all components are correctly installed as shown in Figure 1.
Improper installation can cause injury or damage to equipment.
 - g. Tighten the arbor nut to the proper tightness specified in Table 1.
 - h. Use spacers to align cotter pin hole in shaft with slot in Arbor nut.
Do not exceed torque specified in Table 1.
 - i. Install the cotter pin.
 - j. Install wheel guard cover.
5. Adjust tool rests and spark arrestors to 1/16 in. clearance at the wheel.
 6. Verify that all grinder safety features are installed and adjusted.

Figure 1 Wheel Installation

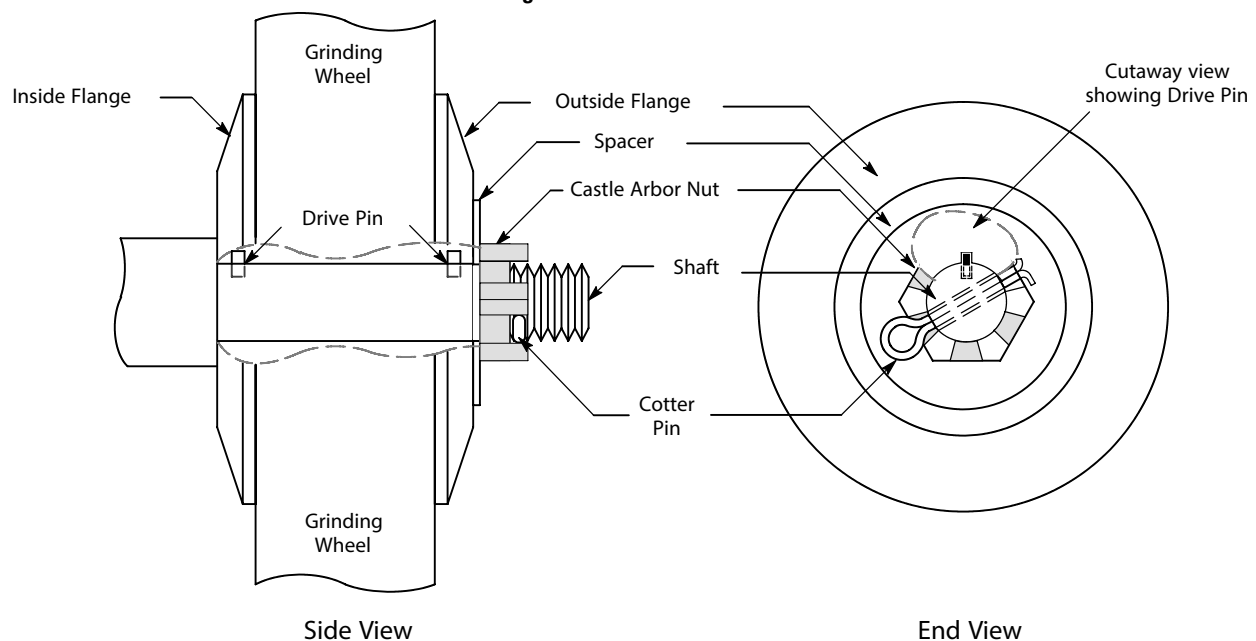


Table 1 Tightening Torque Specifications

Wheel Size	Shaft Thread	Arbor Nut Tightening Torque *	
		lb-ft	Nm
6 in.	1/2 - 20	10 - 12	14- 16
7 in.	5/8 - 11	13 - 16	18- 21
8 in.	3/4 - 10	16 - 20	22- 27
10 in.	7/8 - 9	21 - 25	29- 33
12 in.	1-1/4 - 7	28 - 34	38- 46
14 in.	1-1/4 - 7	32 - 40	44- 54

* Due to variations in wheels and other components, it is not always possible to align a slot in the castle arbor nut with the hole in the shaft to install the cotter pin and maintain the specified torque. Use the shims provided to adjust the position of the arbor nut on the shaft so that the cotter pin can be installed when the arbor nut is at the proper torque. Be sure that the spacers are centered on the grinder shaft and are not trapped in the threads.



Baldor Electric Company

P.O. Box 2400, Fort Smith, AR 72902-2400 U.S.A., Ph: (1) 479.646.4711, Fax (1) 479.648.5792, International Fax (1) 479.648.5895

www.baldor.com