

RESIN FIBER DISC SET UP CHECKLIST



Safe installation of Resin Fiber Discs or ANY abrasive begins with a guard that is designed for use with your tool and is properly positioned prior to use. Be sure to read, understand, and follow your tool manufacturer's instructions for installation and positioning of the guard.

Choose Your Backup Pad

- Select the flexibility** of your backing pad:
 - » **SOFT FLEX:** Provides increased flexibility and conformity for curved and irregular parts.
 - » **MEDIUM FLEX:** Provides wide, even contact patch on consistent surfaces at angles between 7 and 15 degrees.
 - » **HARD/STIFF FLEX:** Provides maximum aggression at lower grinding angles on flat, even surfaces.
- Use an appropriate diameter backup pad** that matches the diameter of the Resin Fiber Disc.
 - » There should be no more than 3/16" overhang of the Resin Fiber Disc to properly support and protect the disc's edges from the workpiece.
 - » If additional flexibility is desired, choose a backup pad with a softer flex.
- Low-profile** backup pads are an excellent choice for Resin Fiber Discs with 5/8"-11 connectors pre-installed.

Remove Lower Adapting Nuts On MOST 4-1/2" And 5" Angle Grinders

- Most 4-1/2" and 5" angle grinders have shorter spindles and will require the removal of lower adapting nuts before installing the backup pad.
- 7" and 9" angle grinders typically have longer spindles and may require lower adapting nuts and/or additional adapting nuts to prevent the spindle from protruding through the center of the Resin Fiber Disc – which can interfere with the workpiece.



7" grinder (left) has a noticeably longer spindle than the 4-1/2" grinder (right).

7" grinder (left) requires an adapting nut, where the 4-1/2" grinder (right) does not.

OBSERVATIONS:
Abrasive surface is below outer lip of guard.
Adapting nut.
No adapting nut.



Install The Backup Pad First – DO NOT OVER TIGHTEN

- Whether using a threaded or open-arbor backup pad, it's important to install and hand-tighten (threaded only) **BEFORE** attempting to install the Resin Fiber Disc.
- It is not recommended to use tools, wrenches, or vices to over-tighten or secure a backup pad to your grinder.

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Store Discs Appropriately And Check For CURL Prior To Installation

Discs should be stored in a flat, dry location with an ambient temperature that is as consistent as possible. Ideally 40 - 50% humidity and 60 - 80 degrees F.

Positive Curl is down with the outer edges of the Resin Fiber Disc bending **TOWARD** the backup pad.

- » This curl should **NOT** exceed 1/4".
- » 1/4" or less **POSITIVE** curl will flatten as the disc nut is tightened, and pull the edges flat and flush with the backup pad.
- » Excessive dryness will create this condition.

Negative Curl is up with outer edges curling **AWAY** from the backup pad. These discs should not be installed or used.

- » Negative curl increases the possibility of Resin Fiber Disc edge damage. Lack of direct contact of the backup pad to the work surface creates an unsafe working condition that could lead to injury.
- » Prolonged exposure to moisture/humidity will create this condition.

Fiber discs with negative curl should NOT be installed or used.



Install The Resin Fiber Disc And Hand-Tighten The Disc Nut

Place the Resin Fiber Disc onto the backup pad with the grit facing up and away from the grinder.

Using the **PALM** of your hand, apply moderate pressure straight down, allowing the disc nut to engage the spindle threads.

Tighten by hand until the disc nut is flush with the surface of the Resin Fiber Disc.

A 1/4-turn with a disc wrench will sufficiently tighten and seat the disc nut without over-tightening, which can make removal of the disc difficult.

Resin Fiber Discs with 5/8"-11 inserts pre-installed are tightened directly onto the spindle thread using moderate downward pressure until the backup pad prevents further tightening.

NEVER OVER-TIGHTEN a Resin Fiber Disc onto the backup pad.

Ensure That The Spindle Does Not Protrude Through The Top Hole Of The Resin Fiber Disc

If the spindle of the grinder that you are using is protruding through the grinding surface of the Resin Fiber Disc, you may need to install an adapting nut under the pad to prevent interference with the workpiece.

- » Grinding while the spindle is exposed leaves it vulnerable to workpiece contact and can damage both the workpiece and the spindle of the tool.