

README by Ronen Zyroff

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Use with the provided Metal Master diamond cutting disc 3-inch. Cuts stainless steel like butter!

Do not use the blades that came with the angle grinder that are made of epoxy resin with sandpaper. They absolutely can explode in your face. You can use the fully-metal wood cutter that came with the angle grinder. But never use blades that look like you can snap with your fingers.

The internal diameter of the diamond blades was too small for this model of angle grinder (9.5mm instead of 10mm) so I rubbed sandpaper on the internal circle until enough steel was eroded away to make the blade perfectly fit into the angle grinder center holder (~20 iterations of sandpaper rubbing for each blade).

Do not screw / unscrew / maintain anything while batteries are in.

Insert the blade such that the red side without text is facing outward, and the text is hidden by the body of the angle grinder. Then put the washer (smooth side facing away from the angle grinder), then screw the screw and tighten it using the provided hex wrench.

The hand that's cutting should always have anti-cut gloves- that are not too bulky- you don't want the blade to get caught on some fabric.

Only operate while wearing a coat that protects neck, and motorcycle helmet- by extension only operate in a very cold place because the safety measures will make you hot.

Only operate while stabilizing with both hands. One hand is the one holding the hold-switch to keep on, the other hand should hold the engine body tightly (without blocking the air intakes). It's super important to hold tight, because an angle grinder can easily and suddenly get caught on a piece of metal wire or large mass and jerk out of your hands!

Do a dry run- get to full speed in air without actually cutting anything. Take out the battery and make sure that the screw is still as tight as you made it originally (make sure it didn't get lose). Also, notice any wobbling. There shouldn't be any wobbling. Practice avoiding automatic mode- you want to have to continue pushing constantly. Automatic mode is unsafe.

This angle grinder is purposefully very weak and small. You can fully stop the blade during operation by pushing onto a piece of hard metal. You can (and should) slow down the blade during operation by only briefly pushing the on button intermittently. Oh, and during cutting don't go too deep too fast. Just push onto the metal piece being cut before the blade starts spinning so that the blade has a hard time gaining speed. Prefer low speeds! (no actual setting control speed).

Prefer surface cuts to deep cuts. During deep cuts the blade might suddenly get blocked by mass of metal and try to jerk the angle grinder out of your hands. You could lose a finger. Prefer slow and even cuts rather than deep and fast cuts.

Only cut small pieces of metal that are tightly held with a vice. Optionally use cookie silicon with the vice, to keep a good grip.