

Polishing Substrates with DREMEL 200-1/21 Rotary Tool



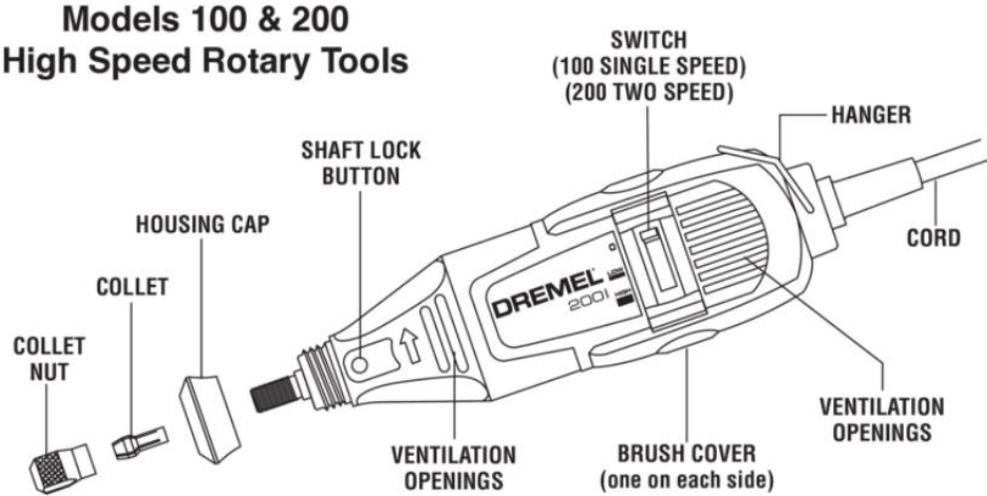
Created by: Jorge Plata, Edwin Caballero

Manager: Samuel Hernández-Rivera

Mini-SOP-01	Jorge Plata Edwin Caballero		University of Puerto Rico at Mayagüez
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This SOP uses the following:

- Instrument: DREMEL 200-1/21 Two-Speed Mini Rotary Tool Kit
- Dremel 220-01 Workstation
- Collet Wrench
- Stainless steel substrate
- DREMEL No. 421 Polishing Compound



POLISHING STAINLESS STEEL

	Grab the desired polishing compound. Varies per substrate surface.
	Swipe back and forth the polishing compound on the material until all the substrate surface is covered. The polishing compound should be placed as evenly and uniformly as possible. One side was polished to observe the before and after difference on the substrate.
	Press the Shaft Lock Button close to the attachment below the ventilation openings of the DREMEL 200-1/21. If you already have the strong polish brush (DREMEL 461 ¼ in. Rubber Polishing Cylinder Point) in the device, skip steps 4 and 5.
	Remove attachment by rotating the Collet Nut with a Collet wrench.
	Place the strong polish brush inside the Collet Nut opening of the DREMEL 200-1/21. Use Collet Wrench to adjust accordingly.
	Turn knob to move the DREMEL 200-1/21 drill.
	Change drill to a horizontal position and turn knob to fix the position.
	Turn on the DREMEL 200-1/21 drill to the low option (15,000 RPM).
	Slide the aluminum substrate on the polishing point uniformly with enough force to feel the point polishing the substrate. Repeat process for 5-10 minutes.
	Change the strong point (DREMEL 461 ¼ in. Rubber Polishing Cylinder Point) with a softer point ().
	Polish substrate by wiping uniformly for 5 to 10 minutes.

APPENDIX

Polishing tips or brushes for substrates

Attachment	Picture	Polishing
Structure Tooth Tungsten Carbide Cutters		Fiberglass, wood, plastic, epoxy, and rubber.
DREMEL 461 ¼ in. Rubber Polishing Cylinder Point		Steel, aluminum, brass, Shell/Stone, Ceramic, and glass. All 22,000 – 27,000 RPM
DREMEL 462 ¼ in. Rubber Polishing Cone Point		Steel, aluminum, brass, Shell/Stone, Ceramic, and glass. All 22,000 – 27,000 RPM
DREMEL 463 1/4 in Rubber Polishing Tapered Point		Steel, aluminum, brass, Shell/Stone, Ceramic, and glass. All 22,000 – 27,000 RPM
DREMEL 414 Felt Polishing Wheels ½"		Steel, aluminum, brass, Shell/Stone, Ceramic, and glass. All 16,000 – 21,000 RPM
DREMEL 422 Felt Polishing Cone		Steel, aluminum, brass, Shell/Stone, Ceramic, and glass. All 16,000 – 21,000 RPM
DREMEL 429 Felt Polishing Wheel 1"		Steel, aluminum, brass, Shell/Stone, Ceramic, and glass. All 16,000 – 21,000 RPM

DREMEL 425-02 Impregnated Wheels		Steel and aluminum. All 22,000 – 27,000 RPM
DREMEL 427 Polishing Point		Steel and aluminum. All 22,000 – 27,000 RPM
DREMEL 423^E EZ Lock CLoth Polishing Wheel5		Steel (16,000 – 27,000 RPM), aluminum (5,000 – 8,000 RPM), shell/stone (5,000 – 8,000 RPM), ceramic (5,0000 – 8,000 RPM), and glass (16,000 – 27,000 RPM).

Polishing compounds for substrates

Polishing Compound	Substrates
Aluminum Oxide	Metal, Glass, Plastics, Ceramics
Silicon Carbide	Metal, Glass, Ceramics, Composites
Diamond	Metal, Glass, Ceramics, Composites
Cerium Oxide	Glass, Quartz, Ceramics
Zirconia Alumina	Metal, Plastics, Composites
Iron Oxide	Metal, Glass, Ceramics
Chromium Oxide	Metal, Glass, Ceramics
Tripoli	Metal, Plastic, Wood
Rouge	Metal, Plastic, Wood
Colloidal Silica	Glass, Ceramics, Silicon Wafers
Calcium Carbonate	Soft Metals, Wood, Marble, Limestone