

Stainless Steel Polishing Kit

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Thank you for purchasing my polishing kit. This kit was designed specifically to polish the inside of stainless steel exhaust tips. It can be used on many other **uncoated** and **non-painted** metals and even plastics (see chart on last page). ***If you use it on a coated (clear coated) metal it will damage the finish!*** I have perfected this method and now that you have the correct tools you can achieve the same outstanding results as hundreds of others. To do this properly, it's critical that you thoroughly read and follow these steps in order to achieve optimal and consistent results. With this kit, the **effort will = the results.**

Kit contains

- 4" High Quality Mushroom Buff w/ drill adapter
- 2 Special Compounds designed to take stainless steel to a mirror finish
 - Brown is a medium abrasive, used to remove surface scratches
 - Green is a finer abrasive, designed just for stainless steel
- A supply of Simichrome polish, the best final polish hands down
 - Simichrome is the world's finest all-metal polish. Any uncoated, non-ferrous metal surface – brass, gold, silver, aluminum, magnesium, pewter, chrome, sterling, copper, stainless steel – can be brought to a brilliant shine using Simichrome. After polishing, Simichrome leaves a thin protective coating to help prevent tarnishing.
- 2 Maintenance cloths
 - Yes they are diapers (new of course), these diapers are chosen because they have 6 layers of material in the center. This allows you to wipe the tips when hot and not burn yourself (more on this later). It's suggested you wash and dry these prior to use. You can use any commercial detergent, but ***DO NOT*** use any fabric softener or dryer sheets. This will fluff them up.

You will need

- Drill, a corded drill is recommended but a good quality cordless drill will work fine. **ALWAYS RUN IN THE FORWARD SPEED ONLY**
- Air drills/grinders are not recommended
- Flat blade screwdriver

SAFETY FIRST

Objects being thrown away from a buffing wheel can be traveling at very high speeds, which can result in some very unpleasant and potentially deadly accidents!
Operators should ALWAYS wear SAFETY GOGGLES, APRON and GLOVES.

You Need To Know

This is unlike any car maintenance you have done before. You are not wiping on sealant or wax, you are polishing a metal, which is a process that gently micro abrades the surface to create reflectivity. Stainless steel is a hard metal that requires buffing with the correct compounds to achieve this result. Proper buffing requires time, so your results are directly related to following these steps and investing quality time with your pipes.

Pre Clean For Really Nasty Tips

You need to evaluate the current condition of your tips. Based on their condition, you may be able to skip some of the steps below. Even if they look clean, it's best to wipe them down first with soap and water; grit caught in the buff will DAMAGE the finish.

If they are black with soot and containments, you will need to pre clean them. This can be done in a number of ways, use the one that is available to you.

Lacquer/Paint thinner - Make sure the exhaust is cold, and be sure that you **read and follow all warnings on the container**. Clean the tips with the remover, you should be able to see metal with almost no black spots.

Baking soda - Make sure the exhaust is cold. Mix a small amount (about 1/2 cup) of baking soda and a little water to make a paste (consistency of pancake syrup). Spread it on the tips, working it around good and let it sit for 1/2 hr. Remove, rinse and dry. You should be able to see metal with almost no black spots.

Bug / Tar remover - Make sure the exhaust is cold and clean with the remover. You should be able to see metal with almost no black spots.

Time To Buff

Brown Compound

Designed to remove small scratches and defects, it will also remove soot and other exhaust containments. Realize you will not get a mirror finish in the very inside of the tip, but you will be able to clean this up considerably (especially if it was not prepped from the manufacture to have a mirror finish.). Also if you have C6 stock tips do not buff inside where the perforations are. If your tips are in good condition with a fair shine, skip the brown compound steps and move directly to the green steps.

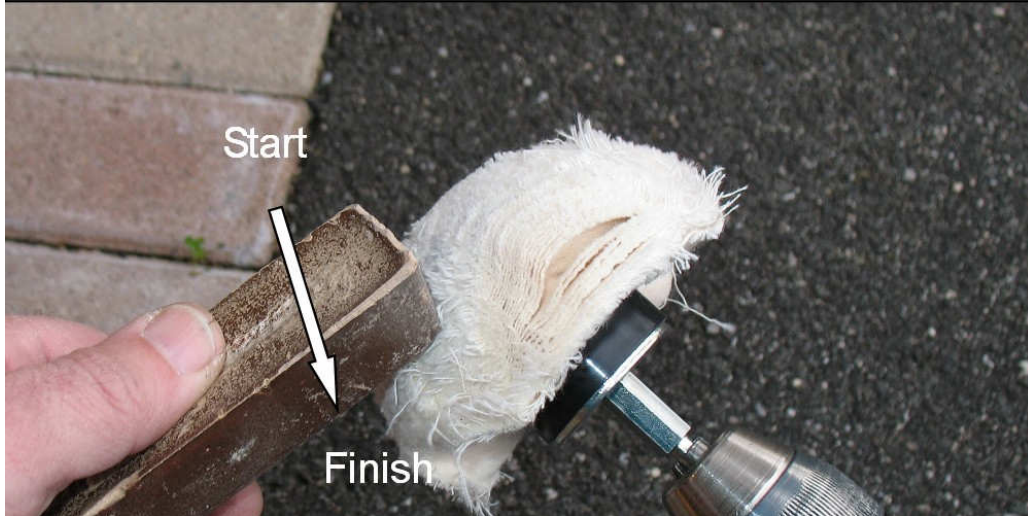
Install the mushroom buff in the drill. When using the buff for the first time or when you change compounds, you will want to "rake" it using a small flat blade screwdriver. With the drill running, move the tip of the screwdriver across the buff as shown. If this is the first time, it will create a lot of lint so do it outside away from the car.

With the drill running (always run drill in forward only) , "Rake" the buff to clean off the compound off prior to moving on to the next finer compound / polish. Move tool from start to finish. Also "rake" prior to 1st use to remove excess lint.



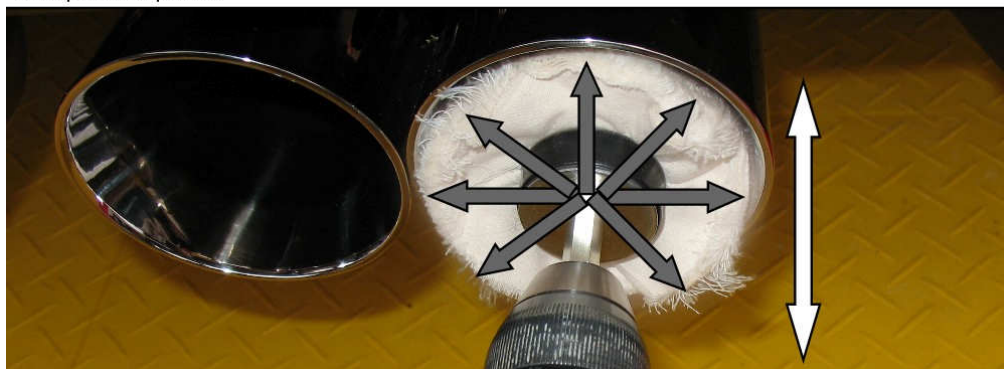
Running the drill at a high speed, apply the compound to the buff by firmly pressing the compound against the buff. It is the heat from the friction that will make the compound transfer so if it is ice cold, this could be difficult. It will not coat the buff but will leave behind the abrasive, it does not take a lot of compound.

With the drill running (always run drill in forward only) , Apply the compound to the buff. Move the compound from start to finish. The brown and green compounds will transfer onto the buff. Reapply to buff as needed.



Next insert the buff into the tips and run at high speed. As you buff, apply pressure to the sides, top and bottom, moving the buff in and out at the same time. You should be spending about 1–2 minutes on each tip. Work the buff in and out with pressure. When you get towards the outside of the tip, just let the buff center in the tip, and finish the buff process. Wipe out any left over compound.

Insert the buff in the tip and run on high speed (always run drill in forward only). As the drill is running, light pressure should be applied towards the surface (gray arrows) moving the drill in and out and around (white arrows). This is to be repeated with each compound / polish



Repeat on the other tips reapplying the compound for each tip. You should never get the metal very hot during the process. If it gets very hot to the touch, let it cool. When all tips are complete, wipe them clean, it is time to move on to green.

Green Compound

Green compound is designed for stainless steel (*if your tips are in good condition you can start with this step*). Rake the buff as described in the brown section. Running the drill at a **low** speed, apply the compound to the buff. It does not take a lot of compound but the

buff should have a coating on it to start. Now insert the buff into the tips and run at **high** speed. As you buff, apply pressure to the sides, top and bottom, moving the buff in and out at the same time. You should be spending about 1–2 minutes on each tip. Work the buff in and out with pressure. When you get towards the outside of the tip, just let the buff center in the tip, and finish the buff process. Repeat on the other tips reapplying the compound. You should never get the metal very hot during the process if it gets very hot to the touch, let it cool. Wipe the tips clean and move on to Simichrome.

Simichrome Polish

Simichrome is the icing on the cake. Rake the buff as described in the brown section, using the screwdriver to clean and prepare it. Apply a very small amount of Simichrome on each tip as shown.

When you apply the Simichrome, apply directly to the surface like this. A little goes a long way. Each is just a dab that I applied to my finger and wiped on the tip



Now insert the buff into the tips and run at high speed. As you buff, apply pressure to the sides, top and bottom, moving the buff in and out at the same time. You should be spending about 1–2 minutes on each tip. Work the buff in and out with pressure and towards the end just let the buff center in the tip and this will finish the buff process. Repeat on the other tips. Wipe the tips clean and admire the transformation you just accomplished. *WOW!!* The outside of the systems can be hand or machine buffed also.

How To Keep the Shine

This is where the diapers come in. I keep one in the rear hatch and one in the garage next to the back of my car. I realize it's not always practical, but each time you come home or stop some place for the day, take the diaper as shown and wipe out the tips. This secret works because when hot all the dirt and containments just wipe off, since the Simichrome leaves a thin protective coating. Even if you just do this upon returning home for the day, your tips will look great.

CAUTION: they will be very, very hot and you can get burned!

If done as shown you will be protected by 12 layers of diaper.

Using the supplied diapers, fold in half. The center of the diaper is 6 layers thick, folded it's 12 layers, thicker than a pot holder. After you shut the car down for the night, give it a wipe, keeping your hand safely in the center. CAUTION: HOT TIPS CAN BURN



As needed if the tips get bad, repeat the *green* steps. For normal maintenance just repeat the *Simichrome* step to get back that mirror shine. Never apply wax to the exhaust pipes; it will cause them to turn yellow over time.

For your reference, here is a chart showing various metal polishes, and which polishes are recommended for what materials.

Compound Chart	Coarse					Fine
	Black Emery	Brown Tripoli	White Diamond	Green Stainless	Red Rouge	Blue All Purpose
Acrylics						•
Aluminum	•	•	•	•		•
Brass	•	•	•	•	•	•
Copper	•	•	•	•	•	•
Gold		•	•		•	•
Iron	•			•		•
Nickel	•			•		•
Pewter	•	•			•	•
Platinum			•	•		•
Sterling or Silver Plate		•	•		•	•
Steel	•			•		•
Nickel or Chrome Plate					•	•
Brass or Copper Plate		•	•		•	•
Stainless Steel	•	•	•	•		•
Thermosetting Plastic (Bakelite, Formica)		•	•		•	•
Hard Rubber		•				•
Horn		•				•
Wood		•				•

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