



# How to Apply Burner Coating to a Toyostove Heater

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## WARNING

*Rural Energy Enterprises, Inc. does not accept liability for the improper use of this information. Installation, service, and maintenance of heating equipment should be performed by a qualified technician. Improper installation, adjustment, alteration, service, or maintenance can cause property damage, personal injury, or loss of life.*

Burner Coating Paint is applied to the bottom of the burner pot and replaces the burner mat in some models.

## Tools Needed

Phillips Screwdriver, 6"  
Shop Vacuum  
Needle-Nose Locking  
Pliers

Phillips screwdriver, 18"  
Clean Rags  
Safety Glasses  
Electric Drill

Acid Brush, ½"  
N95 Dust Mask  
Wire Brushes for Drill  
Pliers

## Parts Needed

Burner Coating

Joint Packing Gasket

Fuel Nozzle Gasket

1. Remove heat exchanger and inspect for cracks. Clean with Speedy White cleaner.
2. Remove heat chamber and inspect for cracks. Clean with Speedy White cleaner.
3. Save heat chamber gasket by carefully sliding onto a piece of cardboard.
4. Remove burner ring (turn counter –clockwise).
5. Remove flame rod, igniter, and fuel nozzle.
6. Use either a sand blaster or wire brushes on your drill to clean the burner pot thoroughly. Remove all carbon, paint and glue from the bottom of the burner pot.
7. Clean all air holes in burner pot with an appropriately sized drill bit held with needle nose locking pliers.
8. Using acetone, wipe the burner pot clean. This will probably need to be done more than once.

9. Inspect the bottom of the burner pot for warping/cracking. Replace the burner assembly if necessary.
10. Stir (not shake) the burner coating paint until it is of a smooth consistency.
11. Dab 3 or 4 dime-sized droplets of paint onto the burner pot bottom with a small acid brush.
12. Brush the coating into the burner pot bottom. Brush strokes should start at the fuel nozzle, and fan out across the bottom of the burner (small ridges will form).
13. Allow the coating to dry overnight.
14. Install new fuel nozzle gasket.
15. Clean the fuel nozzle and reinstall.
16. Test the igniter (between 16-19 $\Omega$  at 70°F).
17. Replace or reinstall the igniter guide gasket.