

*Eastwood*

DO THE JOB RIGHT.

Item #46076

# EXHAUST MANIFOLD SMOOTHING KIT INSTRUCTIONS



# SAFETY INFORMATION



## READ INSTRUCTIONS!

- Read this entire manual before set up and use.
- Keep this manual in a safe location as it will be necessary to refer to it often.



## INJURY WARNINGS

- Wear approved eye gear at all times when operating this kit for protection from possible ejected particles, shards and sparks created from grinding, brushing or sanding.
- Certain grinding operations can emit excessive noise. Wear appropriate hearing protection while using.
- Use of the components in this kit can generate a trail of sparks which are ejected at high speed. Keep pets, people and flammable materials out of the path of the spark trail.
- Keep loose clothing, jewelry and long hair away from rotating components as serious personal injury can occur.
- **ALWAYS** disconnect tool from air or electrical supply when changing pads or disks to prevent accidental tool starting and potential injury.
- **WARNING:** The tools required to use this kit are powerful and generate considerable torque while operating. Always handle with two hands and exercise great caution while operating.
- Do not force tool while grinding as the tool body can suddenly kick back or twist causing severe hand or wrist injury. Sanding disks or cleaning wheels can also be damaged by excessive side force causing them to disintegrate and eject pieces at high velocity.
- **ONLY USE** replacement abrasive rolls or carbide burrs rated for 22,000 RPM or greater, otherwise serious injury can result in the event of failure.
- Always make sure the work piece being ground/cleaned/sanded is securely clamped or anchored to allow two handed operation of power tool.



## HEALTH WARNINGS

Fine dust is produced during the grinding/cleaning/sanding process and may contain hazardous materials such as lead, cadmium, solvents, etc. Wear NIOSH approved respiratory protection while using.

The **EASTWOOD MANIFOLD SMOOTHING KIT** is the easy way to restore that showroom appearance to old or neglected cast iron manifolds. Use this kit with your high-speed die grinder to level rusted pitted surfaces.

## INCLUDES

- (20) 80 Grit Cylinders
- (10) 80 Grit Tapers
- (10) 120 Grit Cylinders
- (10) 120 Grit Tapers
- (2) 4" Mandrels

## PREPARATION

- See vehicle's owner's manual for proper procedure for exhaust manifold removal.
- Degrease manifold with a heavy duty degreaser such as Metal Wash (10120), PRE Painting Prep (10041Z) or Chassis Kleen (12196Z).
- Wear disposable gloves, like our Disposable Nitrile Gloves (43098 M, L, XL), to avoid contaminating the cleaned surface.
- Examine manifold for obvious defects, such as pinholes, warpage, or cracks.
- Replace or repair defective manifolds before smoothing.

### USING ABRASIVE ROLLS

Smooth the manifold using a die grinder with the included 4" mandrel and 80 Grit Cartridge Rolls and tapers. If you used a carbide burr to begin the smoothing process, work the 80 Grit Cartridges at about 90° to the previous burr scratches.

***TIP:** Using 60 Grit Flap Disks on an Angle Grinder can speed up smoothing on large, flat surfaces and curves. They are available through Eastwood in 4-1/2" size (11947).*

**NOTE:** Exercise care to avoid damage to gasket surfaces.

**Caution:** If the old gasket material contains asbestos, use paint remover and scrape by hand to prevent asbestos from becoming airborne. Dispose of asbestos material in accordance with local regulations.

Once the pits have been smoothed out using the 80 Grit Cartridge rolls go over the 80 grit scratches at right angles with the 120 grit abrasive rolls until all 80 Grit scratches are removed and blend in surrounding area.

## FINAL PREPARATIONS FOR COATING

- Any remaining rust can be removed by abrasive blasting or with a chemical rust remover.  
**NOTE:** If using rust remover, be sure to check manifold every 20 minutes and remove rust remover when part is rust free. Leaving manifold in contact with rust remover longer than necessary will damage the manifold.
- Wash manifold with PRE Painting Prep (10041Z) and allow to dry before coating.
- Follow directions on can of high temperature manifold coating for satisfactory results.
- Eastwood provides durable manifold coatings in three colors:  
Satin Black (10393Z), Factory Gray (10395Z), and Silver (10396Z).

## ADDITIONAL ITEMS

- #51151** Cylinder Head Porting Kit
- #46056** Engine Porting Kit
- #10395Z** High Temp Manifold Coating (Factory Gray)
- #10393Z** High Temp Manifold Coating (Satin Black)
- #10396Z** High Temp Manifold Coating (Silver)
- #10041Z** PRE Painting Prep

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If you have any questions about the use of this product, please contact  
The Eastwood Technical Assistance Service Department: 800.544.5118 >> email: [techhelp@eastwood.com](mailto:techhelp@eastwood.com)  
PDF version of this manual is available online >> [eastwood.com/46076manual](http://eastwood.com/46076manual)

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