



Toll Free: 87 PERMATEX  
(877-376-2839)

10 Columbus Blvd., Hartford,  
Connecticut 06106

6875 Parkland Boulevard, Solon  
Ohio 44139

## Technical Data Sheet

# Permatex® Rear Window Defogger Repair

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### PRODUCT DESCRIPTION

Permatex® Rear Window Defogger Repair is a complete system for repairing damaged and broken rear window defogger grid lines and tabs. The kit contains two products: The first is a solvent based acrylic grid repair system (0.05 fl. oz. bottle of resin, stencil and brush) which is designed to conduct electricity and distribute heat for the repair of breaks in the grid of rear window defoggers. The second is a two part, electrically conductive tab adhesive system (adhesive and activator) designed to reapply the tab to the grid. Permatex® Rear Window Defogger Repair provides a low-cost, high quality repair for damaged rear window grid lines and broken or damaged defogger tabs.

### PRODUCT BENEFITS

- High electrical conductivity for both parts
- Resistant to extreme weather conditions
- Excellent cosmetics – the grid repair adhesive color matches the grid color
- The tab adhesive bonds defogger tab to rear window grid
- Excellent performance
- Complete kit
- One step application for both parts

### TYPICAL APPLICATIONS

- Use on all rear window defoggers to repair damaged grid lines and to replace damaged or broken defogger tabs.

### DIRECTIONS FOR USE – GRID REPAIR

1. For best results, the ambient temperature should be at least 50°F during application.
2. Turn off the rear defogger. Clean the surface of the glass.
3. Remove the protective backing on the stencil.
4. Carefully place the stencil over the broken area of the grid. Make sure to align both ends of the broken line with the stencil.
5. Press the stencil against the glass and make sure that all air bubbles are removed.
6. Shake the bottle well. If solid material remains on the bottom or sides of the bottle, it may become necessary to use a toothpick to mix completely.
7. Using the brush, apply the adhesive. Make sure that the adhesive overlaps with both ends of the broken line.
8. Wait for the surface to become tack free. Repeat the application procedure four (4) times. Look through the window from the inside; there should be no light showing through the repaired area. Area repaired must be completely opaque with an ohms resistance reading of essentially zero (0) across the repair.

9. Remove the stencil after 30 minutes. Wait 24 hours before turning on the defogger. **Note: Before driving the vehicle for the first time after making the repair, turn on defogger and allow to it warm up for 15 minutes or until the defogger automatically turns itself off.**

### For Cleanup

1. Repair area may be cleaned with acetone or nail polish remover that contains acetone.
2. Clean hands with Permatex® Fast Orange® hand cleaner or soap and water.

### PHYSICAL PROPERTIES – GRID REPAIR

	Typical Value
Chemical Type	Acrylic resin containing metallic silver
Appearance	Copper colored liquid
Odor	Solvent
Flash Point T.O.C. (°F)	94
Adhesion to glass	Excellent
Temperature resistance	-30°F to +180°F
Cure time	Tack free - 2 minutes Full cure - 24 hours
Minimum electrical resistance (ohm-cm)	1.01 X 10 <sup>-3</sup>

### DIRECTIONS FOR USE – TAB ADHESIVE

1. For best results, the ambient temperature should be at least 50°F during application.
2. Turn off the rear defogger. Carefully remove the wire from the tab.
3. Ensure that the tab is flat and makes complete contact with the mounting surface.
4. Note: **Do Not** mount tab on the same grid area if the grid has been removed from the glass. There must be grid so that a complete circuit can be made.
5. If grid has come off with tab, rub tab on a flat piece of 180 grit or finer sand paper until surface is flat, of same color, and all of the old adhesive/grid material has been removed.
6. Open the Cleaner/Activator towelette by pulling both sides of the protective packet at the point at the top sides of the package. Fold the packet back to use. The towelette is attached to the foil packet. **Do not remove.**
7. Clean the lead attachment area on the rear window **Only** with the Cleaner/Activator towelette. **Do Not** use Cleaner/Activator towelette on the tab. Allow activator to dry for at least 2 minutes. **DO NOT TOUCH** mounting surface of the glass or tab after cleaning and activating.
8. Thoroughly knead the adhesive pouch until the

NOT FOR PRODUCT SPECIFICATIONS.

THE TECHNICAL DATA CONTAINED HEREIN ARE INTENDED AS REFERENCE ONLY.

PLEASE CONTACT PERMATEX, INC., TECHNICAL SERVICE DEPARTMENT FOR ASSISTANCE AND RECOMMENDATIONS FOR YOUR SPECIFIC APPLICATION.  
PERMATEX, INC., HARTFORD SQUARE NORTH, 10 COLUMBUS BOULEVARD, HARTFORD, CT 06106 PHONE – (1-87PERMATEX)

adhesive is of uniform beige color (about 1-2 minutes). Cut top of pouch. Apply one drop of adhesive to the center of the mounting area of the tab.

9. Immediately apply tab to rear window; hold firmly for 1 minute. Allow 24 hours to cure before turning on defogger. **Note: Before driving the vehicle for the first time after making the repair, turn on defogger and allow it to warm up for 15 minutes or until the defogger automatically turns itself off.**
10. If available, check the continuity between the tab and the grid with a multimeter. There should be 0 ohms resistance between the two points.

**For Cleanup**

1. Repair area may be cleaned with acetone or nail polish remover that contains acetone.
2. Clean hands with Permatex® Fast Orange® hand cleaner or soap and water.

**PHYSICAL PROPERTIES – TAB ADHESIVE**

	<b>Typical Value</b>
Chemical Type	Modified acrylic ester
Appearance	Adhesive – beige(when mixed)
	Activator - amber
Odor	Sharp
Flash Point T.C.C. (°F)	>200
Adhesion	Excellent
Temperature resistance	-30°F to +180°F
Cure time	Initial - 2 minutes Full cure - 24 hours

**GENERAL INFORMATION**

**This product is not recommended for use in pure oxygen and/or oxygen rich systems and should not be selected for use with chlorine or other strong oxidizing materials.**

**For safe handling information on this product, consult the Material Safety Data Sheet, (MSDS).**

**ORDERING INFORMATION**

Part Number	Container Size
09117	Clamshell Professional Repair Kit

**STORAGE**

Products shall be ideally stored in a cool, dry location in unopened containers at a temperature between 8° to 28°C (46° to 82°F) unless otherwise labeled. Optimal storage is at the lower half of this temperature range. To prevent contamination of unused product, do not return any material to its original container.

**NOTE**

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