

Heated Window Grid Wire Repair

Materials

Name	Specification
Motorcraft® Ultra-Clear Spray Glass Cleaner ZC-23	ESR-M14P5-A
Motorcraft® Rear Window Defroster Repair PM-11	WSB-M4J58-B
Motorcraft® Lacquer Touch-Up Paint PMPC-19500-XXXXA, PMPM-19500-XXXXG, PMPP-19500-XXXXA	ESR-M2P100-C

Repair

- NOTE:** The antenna and heated window grid line material is not embedded into the glass, but is baked to the glass surface and consequently can be scraped off. An undamaged grid line has small ridges that project above the surface of the glass and can easily be felt when running a fingernail across them. Antenna and heated window grid lines that have been razor bladed will feel smooth when a fingernail is dragged across the affected area. Inoperative heated window grid lines may appear to the eye to be undamaged due to residue remaining on the glass and require diagnosis with a voltmeter or 12V test lamp.

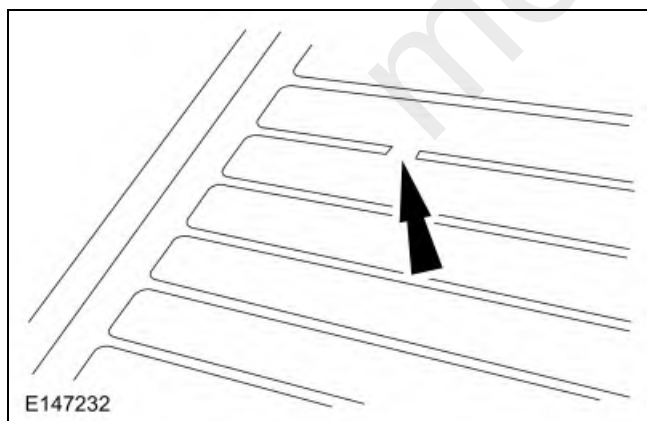
Bring the vehicle up to a room temperature of at least 16Â°C (60.8Â°F) or above.

- NOTICE:** Do not use scrapers, sharp instruments or abrasive window cleaners on the interior surface of the rear window glass as this may cause damage to the antenna and heated window grid lines.

Clean the entire antenna and heated window grid line repair area with glass cleaner and 0000 steel wool to remove all dirt, wax, grease, oil or other foreign material.

Material: Motorcraft® Ultra-Clear Spray Glass Cleaner / ZC-23 (ESR-M14P5-A)

- Mark the location of the antenna or heated window grid break on the exterior of the rear window glass.
- Using a polypropylene film fine line tape, mask the area directly above and below the antenna or heated window grid break extending the tape 26 mm (1.0236 in) beyond the concern area in both directions. The break area should be at the center of the mask. Polypropylene Film Fine Line Tape (commercially available).



- NOTE:** If the brown layer is not broken or missing, apply only the silver grid repair compound to the break. If both the brown and silver layers of the antenna or heated window grid are broken or missing, apply a coating of the lacquer touch-up paint across the break in the grid line prior to applying the rear window defroster repair compound. Do not overlap the silver grid line with the paint. Several applications may be necessary to achieve a color match.

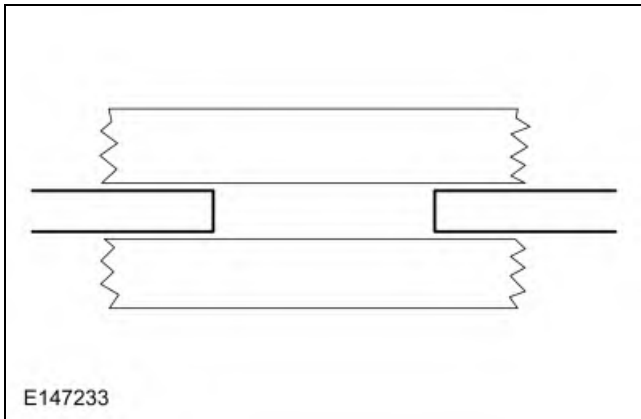
NOTE: Allow at least 5 minutes of drying time between applications for the touch-up paint or the silver repair coating. Applying fewer coats or not allowing adequate drying time between coats produces repaired resistance that is greater than Original Equipment Manufacturer (OEM) resistance, resulting in poor defrost performance and excessive localized heating.

Apply the repair coating to the antenna or heated window grid break area in several smooth, continuous strokes. Extend the silver repair coating at least 6.35 mm (0.25 in) on both sides of the break area. Apply a minimum of 6 applications of the grid repair compound.

Polypropylene Film Fine Line Tape (commercially available)

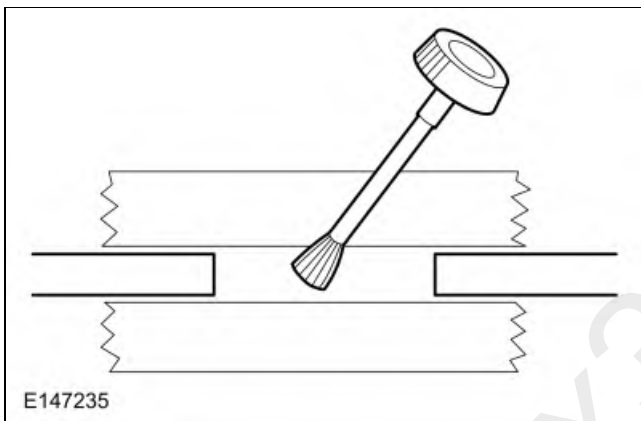
Material: Motorcraft® Rear Window Defroster Repair / PM-11 (WSB-M4J58-B)

Material: Motorcraft® Lacquer Touch-Up Paint / PMPC-19500-XXXXA, PMPM-19500-XXXXG, PMPP-19500-XXXXA (ESR-M2P100-C)



6. **NOTE:** The repair coating air dries in approximately one minute and can be energized after 5 minutes. Optimum adhesion occurs after approximately 24 hours.

Allow the repair area to dry completely and remove the mask.



7. **NOTICE:** Be careful not to damage the antenna or heated window grid line with the razor blade. If this occurs, additional repair may be necessary.

Remove any excess repair compound above or below the antenna or heated window grid line with a razor blade.

8. **NOTE:** The interior side of the antenna or heated grid lines are not painted, but due to the silver tarnishing tend to change the grid to a gold or brown color. The repair area will be bright silver and also tarnish over time to match the rest of the antenna or heated window grid.

Test the system for normal operation.

