



Windshield Repair KIT

DIRECTIONS

CHIPS, BULL'S EYES, STARS (Please see reverse for repair of cracks)

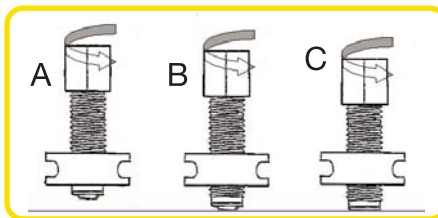
For best results, repair soon after the damage occurs. Wipe away the dust and dirt with dry paper towel. **The windshield should be shaded from direct sunlight until the entire repair is complete.** Use the enclosed razor blade to cut off the tip of the white bottle. Cut off only the sealed tip of the thin end of the repair resin bottle.

STEP 1
Remove loose glass fragments by scraping over it with the razor blade. Affix the applicator base to windshield. Make sure the center ring is centered above the break and the suction cups are firmly attached to the windshield. Do not allow the suction cups to cover any cracks extending from the central impact point. Note: Suction cup legs are adjustable.



- STEP 1**
- CLEAN AREA WITH DRY TOWEL
 - CENTER RING OVER IMPACT POINT

STEP 2
(A) Screw the resin chamber into the center ring. If necessary, **re-manuever the device so the rubber mouth will be directly on top of the point of impact.** Check the alignment from inside the car. (B) Screw down the resin chamber (turning clockwise) so the rubber mouth is flat against the windshield, in **complete, but gentle, contact** with the glass. Excessive pressure will alter the original curve of the glass, affecting the flow of the repair resin and effectiveness of the repair.



- STEP 2**
- SCREW RESIN CHAMBER INTO CENTER RING UNTIL TOUCHING IMPACT POINT

STEP 3
Squeeze 3-6 drops of the repair resin (depending on the extent of the damage) into the resin chamber mounted on the windshield. If the resin leaks out of the bottom of the resin chamber, gently turn the resin chamber clockwise, just enough to prevent leakage.



- STEP 3**
- SQUEEZE RESIN INTO RESIN CHAMBER



- STEP 4**
- SCREW PRESSURE DRIVER INTO RESIN CHAMBER

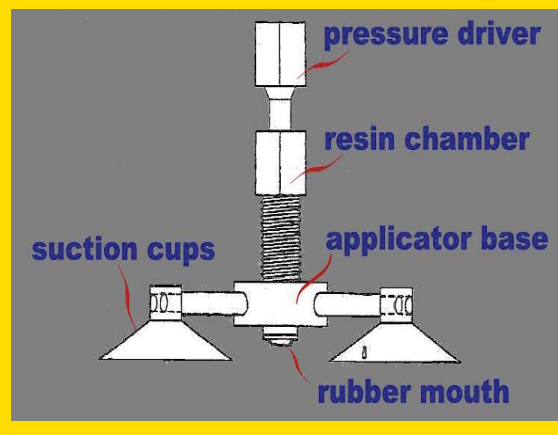
Check from inside the car to make sure the rubber mouth has opened wide. Allow the repair resin time to be absorbed into the break (4-6 minutes depending on the extent of the damage). If the repair resin has not reached all areas of the break, you may apply heat on the inside of the windshield with a hot air gun or hair dryer (not included). Use caution when applying heat as excessive heat may cause further damage. Slightly re-tighten the pressure driver (about 1/4 turn) to push the repair resin further into the break.

- STEP 5**
- UNSCREW AND REMOVE PRESSURE DRIVER
 - RE-INSERT PRESSURE DRIVER
 - REPEAT STEPS 4 AND 5

STEP 5
Unscrew and remove the pressure driver from the resin chamber to release any air trapped in the chamber. Re-insert the pressure driver and screw down again to displace any air remaining in the break. To determine if the repair resin has been absorbed into the break, look at the glass from an angle of about 45°. Make sure no air bubbles remain in the break. In the case of chips or bull's eyes, examine the glass from directly behind the damaged area. Unrepaired areas will appear as dark (green or black) areas. If there is any damage still visible, repeat steps 4 and 5 until satisfactory results are achieved. Make sure there is enough repair resin remaining in the resin chamber. If necessary, add more repair resin.

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THE REPAIR DEVICE (included with kit)



STEP 6

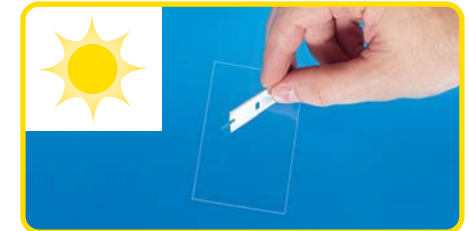
After the air has been removed, turn the resin chamber and pressure driver together half a turn to the left (counter-clockwise). Remove the entire apparatus by lifting up on the small tabs on the suction cups. Gently wipe away excess repair resin from the applicator so it does not drip down the windshield. Add a drop of the repair resin onto areas where damage is still visible and cover with a curing strip for the finishing touches. When applying the curing strips to the repair, no pressure is necessary, gently place the strips on the glass.



- STEP 6**
- REMOVE APPARATUS
 - TOUCH-UP
 - APPLY CURING STRIPS

STEP 7

When the entire application procedure is complete, move the car (windshield) into direct sunlight or use an ultraviolet light. Allow the



- STEP 7**
- MOVE WINDSHIELD INTO DIRECT SUNLIGHT
 - WAIT
 - SCRAPE OFF EXCESS RESIN

repair resin to cure completely (about 5 to 10 minutes), then remove the curing strip(s). If the repair resin is still wet under the strips, leave the strips in place until the repair resin is dry. Scrape away

the hardened excess resin with the razor blade. Hold the razor blade at a 90° angle to the windshield when scraping for best results. It is not necessary to be gentle when scraping. Scrape until the hardened resin comes off in white flakes. If a blemish still remains at the impact point, apply a small drop of the repair resin directly to the chip. Cover the area with a curing strip and scrape over top of strip with razor blade to force resin from the chip. This should leave the repair resin in the remaining blemish only. When this cures, carefully scrape hardened repair resin from all areas except the impact point.

DIRECTIONS – CRACKS

For best results, repair soon after the damage occurs. Wipe away the dust and dirt with dry paper towel. The windshield should be **shaded from direct sunlight until the entire repair is complete.** Use the enclosed razor blade to cut off the tip of the white bottle. Cut off only the sealed tip on the thin end of the repair resin bottle.

A successful repair is achieved when the repair resin has completely penetrated the crack, and the crack “vanishes” when examined at a 45° angle. Poor results are achieved when repair resin is applied too quickly, leaving air pockets, or when a repair is attempted on a contaminated crack.

The repair process may not be successful when:

1. The crack is over 12 inches in length.
2. The crack extends to the edge of the windshield in two places.
3. The crack is not in the outer layer of glass.

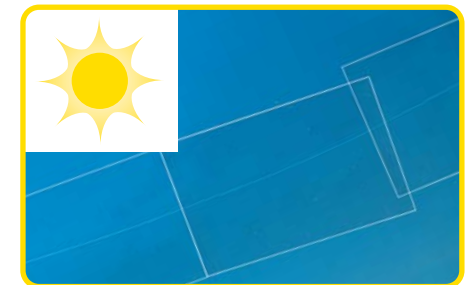
STEP 1

Very slowly dispense repair resin directly on the crack. Start from one end of the crack, and dispense the repair resin only as fast as the crack is disappearing (about 3 seconds a centimeter). Look at the crack from a 45 degree angle to see the shaded or dark area filling with repair resin. Be patient, allow the resin to be absorbed into the crack. After 5 to 10 minutes, if air pockets remain in the crack, apply a small amount of pressure from the inside of the windshield, to both sides and center



- STEP 1**
- APPLY RESIN TO CRACK

of the crack. This will force the air out of the crack. Pressure should be applied carefully and sparingly; excessive pressure will extend the crack. Examine the repaired area from both sides at a 45 degree angle to see if any parts of the crack are still visible. Repeat as necessary, dispensing more repair resin and gently applying pressure from behind until no dark areas are visible.



- STEP 2**
- APPLY CURING STRIPS
 - MOVE WINDSHIELD INTO DIRECT SUNLIGHT
 - WAIT
 - SCRAPE OFF EXCESS RESIN

STEP 2
After all the air has been removed, reapply the repair resin to the length of the crack and place curing strips on covered areas as you go. Be sure not to leave any air pockets under the curing strips. Use as many strips as necessary. When applying the curing strips, no pressure is necessary; gently

place the strips on the glass. When the entire application procedure is complete, move the car (windshield) into direct sunlight or use an ultraviolet light. Allow repair resin in the crack to cure completely (about 5 to 10 minutes). Then remove the curing strips. If the repair resin is still wet under the curing strips, leave the strips in place until the repair resin is dry. Finally, scrape off the hardened repair resin with the razor blade. Hold the razor blade at a 90 angle to the glass when scraping for best results. It is not necessary to be gentle when scraping. Scrape hard until the hardened resin comes off in white flakes.