

LenzSaver™

HEADLIGHT RESTORATION KIT

Instructions

Contents:

- Polish No. 1 & Yellow Polishing Pad
- Polish No. 2 & Gray Finishing Pad
- UV Protectant & Applicator
- Sanding Pad
- Diamond Discs (2)
- Backing Plate (for use with cordless drill)
- Microfiber Towels (2)
- Blue Masking Tape
- Safety Glasses

CAUTION: Do not start this process if your restoration project is exposed to dust in the air, rain, extreme humidity or other inclement weather before the final step is complete.

Thank you for choosing the LenzSaver™ Headlight Restoration Kit!

LenzSaver™ Service Tips

- The sanding process is designed for use with a DC-powered (cordless) drill or small grinder. Do not wet sand with an AC-powered (120V) electrical apparatus!
- An electric buffer should be used for the polishing process.
- During both sanding and polishing, make sure to keep the drill and buffer moving at an even speed at all times creating a pattern of evenly spaced half circles. Keep the pad or disc flat against the surface of the lens. Holding the pad or disc stationary or at an angle will cause damage to the headlight lens!
- Have a container of water available during the process.
- Use a standard hair dryer with the UV Protectant. A heat gun may melt the lens unless used on a low setting.
- You might find it easier and less messy to raise the vehicle's hood and lay a drop cloth over the engine.

Step 1: Preparation

Start by applying two layers of blue masking tape to the painted and/or chrome areas directly surrounding the headlight lens. Press the tape down firmly to get the air out and prevent water from lifting the tape during the process. Leave the plastic lens exposed.

Caution: Although the patented LenzSaver™ chemicals will not damage paint or chrome, the tape will protect against damage during the sanding process.

Place the sanding pad on the backing plate, taking care to center it (looking from behind, make sure the white line is even all around). Attach the pink diamond disc, also making sure it is centered.

Caution: Failure to have the pad centered may cause the pad to wobble and become dislodged.

Insert the backing plate into the cordless drill and adjust the chuck firmly around the shaft. Dunk the sanding pad in water.

Unwrap one of the towels from the kit and soak it in water. Wipe the lens to remove dirt and debris. Then place the towel above the lens so the water drips and cools the lens during the sanding process.

Step 2: Remove the old lens coating

Safety first! Put on safety glasses.

With the cordless drill running at high speed, use right/left and up/down motions in a uniform pattern, applying mild pressure.

Caution: Do not let the lens dry out during the sanding process as it will cause the lens to burn. Keep the pad moving; holding it in one place will damage the lens.

Wipe the lens with the wet towel frequently to keep the lens wet, remove the milky buildup and check progress. Also wipe the diamond disc with the wet towel while the cordless drill is running to

remove buildup. Re-wet the towel as needed. Keep sanding until there is no more milky buildup.

Repeat the process on the other headlight lens.

Remove the pink diamond disc by sliding your finger between the disc and the white part of the pad. Gently dislodge the pink diamond disc to avoid tearing the white attachment surface from the sanding pad.

Attach the blue diamond disc and sand until the surface of the lens appears uniformly dull. Wipe the lens with the wet towel, if shiny patches remain, that is the old coating which still needs to be removed.

Thoroughly clean the lens until no shiny patches or sanding rings remain.

Step 3: Restore clarity (remove scratches and hazing from the lens)

Firmly attach a three inch backing plate (not included) to an electric buffer. Center the yellow polishing pad on the backing plate.

Open Polish No. 1 (yellow packet) and gently squeeze a quarter-sized amount on the center of the polishing pad. Note: Polish No. 1 is activated by oxygen, so pinch the packet tightly closed immediately after use.

Press the pad firmly against the headlight to disperse the polish evenly on the pad. With the buffer running 2600–3000 rpm, use right/left and up/down motions in a uniform pattern, applying moderate pressure. Work on one area at a time until its clear, then move to another area.

As the polish starts to disappear. Lighten up on the pressure so that the pad is barely touching the lens. Keep moving back and forth. You will notice the lens get clearer. Be careful not to heat up lens by using too much pressure.

If the polish dries, wipe the lens with the wet towel.

Apply more Polish No. 1 and repeat until there are no more white or hazy areas on the lens. Squeeze the water from the towel and wipe the lens. This step is complete when no more scratches or hazing are visible.

If any patches of the old lens coating are still visible at this point, repeat Steps 2 and 3.

Use the wet towel and plenty of water to clean the entire area. Caution: Any residue will contaminate the next process, so make sure to remove all of it, even from the gaps and the tape edges

Repeat the process on the other headlight lens.

Step 4: Optical restoration of the lens

Remove the yellow polishing pad from the buffer backing plate and attach the gray finishing pad. Open Polish No. 2 (gray packet) and gently squeeze a quarter-sized amount on the center of the pad.

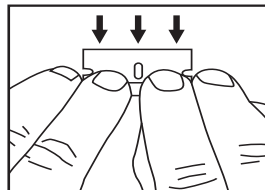
Press the pad firmly against the headlight to disperse the polish evenly on the pad. Do not use excessive force or pressure on this step—it may diminish results. With the electric buffer running at 1800–2000 rpm, polish the lens using the same motion as in the previous steps, applying very light pressure. Keep the pad moving on the surface of the lens at all times. After a minute or so, apply more Polish No. 2 to the pad and repeat.

(continued on back)

At this point, the lens should look like new. If any bad hazy or scratched areas remain, repeat Steps 2, 3 and 4 until optimum results are achieved.

Repeat the process on the other headlight lens.

Burn damage to the lens can be caused by not constantly moving the pad or allowing the pad to become dry. Burn damage will appear as a milky arc on the lens. It can be repaired, but follow the instructions exactly or risk ruining the lens. **Important!** Use a brand new single-sided razor blade. Using both hands, firmly hold the razor blade by the top rib at a 45 degree angle. Be careful not to bend the blade. Pull the blade toward you in long smooth strokes over the burn damaged area. Do not scrape in the opposite direction! The plastic that has crystallized in the burn will be hard to remove, but after a number of passes with the razor blade, the milky area will start to disappear. Continue until the area has a uniformly dull appearance. Repeat Steps 2, 3 and 4.



Scrape at a 45 degree angle to the lens, pulling the blade toward you.

Step 5: Application of the UV Protectant

If you have used a drop cloth, remove it in a rolling motion forward to avoid contaminating the lenses. Remove all the blue masking tape. Rinse the wet towel thoroughly. Wipe the lens in one direction only. Clean the whole area thoroughly. Be sure to remove all polish from the crevasses. If you have access to an air nozzle, blow air around the edges of the lens and rubber seal.

Unwrap the second towel, dry and wipe off the lenses. Make sure there is no dust or polish remaining. Wipe in a side-to-side motion. The UV Protectant is applied and dried one lens at a time. Use a hair dryer to dry and warm one of the lenses before applying the UV Protectant. Hold the blow dryer approximately 2 inches from the lens and go slowly back and forth for about 90 seconds until the lens is totally and evenly warm. Be careful not to touch the plastic, as the oil in your skin will affect the coating.

Apply a generous amount of the UV Protectant (blue packet) to the fluffy side of the applicator, taking care not to drip. Wipe across the lens starting at the top and working your way down in an even, side-to-side motion. Apply more UV Protectant to the applicator to do the second coat.

Set the hair dryer on high heat and hold about two inches from the lens. Dry the lens in slow sweeping motions for about 2 minutes.

When you have finished the first headlight repeat this process on the second lens, starting by warming it with the hairdryer.

Caution: Do not apply the UV Protectant if dust is in the air or in rainy or snowy conditions if working outside.

KEEP OUT OF REACH OF CHILDREN! Read MSDS before using this product. LenzSaver, Inc., accepts no liability for excessive use or misuse of this product.

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LenzSaver™ isn't just for headlights! For more uses, please visit:

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Environmentally Safe & Planet Friendly.

Covered by one or more of the following patents:
540,7615; 533,7524; 533,4335 • Other Patents Pending