



HEADLIGHT RESTORATION SYSTEM

Kit Includes:

50 - Sanding Discs (P1500 grit)	1 - Yellow Foam Pad
50 - Sanding Discs (P800 grit)	1 - White Foam Pad
50 - Sanding Discs (P600 grit)	1 - Soft Interface Pad
50 - Fine Sanding Discs (P2500 grit)	1 - White Sheepskin Pad
1 - Pneumatic Mini Buffer (0-2000rpm)	2 - Heavy Polishing Compound (16oz.)
1 - Disc Pad Holder (Backer Pad)	2 - Light Polishing Compound (16oz.)

The DETAIL PLUS Headlight Restoration System is designed to restore headlight lenses that have become yellowed, cloudy or oxidized. By restoring the lens you will improve the performance of the headlight and enhance the appearance of the vehicle.

Headlight lenses have either a hard surface layer or a UV resistant coating on the outer surface of the lens. Once a lens has been degraded by sun or UV light and becomes yellow or cloudy, it is necessary to remove the yellowed layer in order to restore clarity to the lens. The effort required to do this to the lenses varies from vehicle manufacturer, year, make, model, and headlight design.

With the Headlight Restoration System, you will use a pneumatic mini buffer (0-2000rpm), equipped with a backer pad and sanding disc to remove the yellowed layer from the headlight lens surface. Use the buffer at 1000rpm to avoid excessive heat that can cause damage to the lens which may be difficult to remove. Two sanding steps will follow to refine or reduce the sand scratches that are made when removing the yellowed layer. Finally, you have compounds and a foam pad to remove the fine scratches and create the final finish on the headlight lens.

Consider the condition of the headlight lenses:

- If lenses are 3- 5 years old and do not have any yellowing or do not appear cloudy, do not proceed with the Headlight Restoration process.
- This process will not repair moisture, damage, or defects on the inside of the headlight lens.
- If lenses are yellowed and/or cloudy due to age & weathering, proceed with this process.
- Larger or extremely hazed lenses may require more effort.

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Process Steps

A. Remove lens yellowing & defects using 3" sanding tool



1. Clean lens with soap & water. Then, protect adjacent areas around the headlight lens with automotive masking tape.
2. Identify and use the SANDER for steps 3 - 10. Attach the soft interface pad to the 3" SANDER.
3. Attach a P800 grit disc to the 3" sanding tool equipped with the soft interface pad.

NOTE: For heavily oxidized and pitted lenses, it may be necessary to start with a P600 grit disc followed by a P800 grit disc.

4. Begin sanding to remove yellowing and surface defects from the lens. When the disc is loaded or no longer sanding effectively, replace with a new P800 disc and sand until yellowing/haze is completely removed.
5. Wipe off the lens to ensure all yellowing and defects have been completely removed. If the yellowing or defects still exist, continue sanding until they are completely removed.

B. Refine the lens surface using a 3" sanding tool



6. Continue using the same tool. Remove the P800 grit disc and attach the P1500 grit disc to the soft interface pad.
7. Using a spray bottle, filled with water only, dampen the disc before sanding. Begin refining the lens with the damp P1500 grit disc. A white residue will build up on the lens, indicating you are removing the P800 grit scratches. Add a mist of water to the lens if the surface becomes dry. Avoid sharp edges or alignment pins on the lenses to further extend the life of the foam abrasive discs.
8. Wipe the lens, you will notice the scratches are finer and the lens will appear cloudy.
9. Remove the P1500 grit disc and attach a P2500 grit disc to the soft interface pad.
10. Continue refining the lens using a P2500 foam disc. Remember to use a mist of water on the gray foam discs to yield the best results. Again, the white residual will indicate you are refining the lens.
11. Wipe the lens, the scratches will be finer but the lens will remain somewhat cloudy.

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Process Steps

C. Polish the lens using a 3" Polishing Tool



12. Remove the soft interface pad and attach the velcro backer plate for steps 12 - 18. Attach the yellow foam compounding pad to the 3" polishing tool.



13. Apply a dime-sized amount of the heavy polishing compound to the yellow foam pad. Too much compound will result in excessive sling and added clean up. DO NOT run the foam pad dry.

14. Buff the lens until the cloudy haze is gone and the clarity is significantly improved. If additional clarity is needed, add another dime-sized amount of heavy compound and continue buffing.

15. Wipe the lens and remove the foam pad from the backer.

NOTE: For body shop users, if products that contain silicone are a concern, stop after step 15. If not, proceed to the final polishing step in 16.



16. Continue using the same backer. Attach the white foam polishing pad to the 3" polishing tool.

17. Dispense a dime-sized amount of the light polishing compound to the white foam pad.

18. Polish the lens using the white foam pad and Light Compound.

19. Wipe the lens clean with a soft cloth.

