

# Headlight & Tail Light Restoration Kit

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Thank you for purchasing our head light and tail light restoration kit, this kit can polish away light to medium Scratches, scuffs, haziness and surface marks from headlights and tail lights and leave them looking like new.

**Please read the instructions before use.**

**Electric Drill.** This system is designed to work with an ordinary corded electric drill operating at a recommended speed of up to 2000 rpm. **Important Do not operate this system at speeds exceeding 2500 rpm.** Please ensure that you read the instructions for the electric drill before use.

**Existing Damage.** Before any repair check the lights for any existing damage. If the light has any cracks or chips then this could create a weak point on the light and a repair could cause the light to break or crack.

**Take your time:** Rushing will only lead to a poor quality finish and could cause mistakes and damage your glass. Slower is quicker.

Keep tools and your work area clean. Never allow the polishing pads to come in contact with dust or dirt. If you get grit or dirt on the polishing pad you will cause more damage to the glass being repaired.

## Instructions

### Step 1 – Scratch Removal

Prepare the surface. Use an ample amount of water and soft paper towel to thoroughly clean the entire surface of the light.

Determine the severity of the damage. If you have scratches that catch a fingernail, start with the 1500 disc. For shallower lighter scratches or hairline scratches you may be able to start with the finer 2000 disc. It is important to choose the correct abrasive, if you begin with too coarse a grade, it will result in unnecessary work and effort. Too fine a grade and you will not remove the scratch. If in any doubt start with the polishing compound first and only use the abrasive discs if necessary.

Understand this next part before you begin:

You are about to use an abrasive action to polish the headlight/tail light to the depth of the scratch. If you concentrate on polishing only the immediate area of the scratch, you could cause distortion. Always keep the abrasive moving.

With the drill running at approximately 2000 RPM, gently connect with the surface of the light. Apply firm, even pressure. Move the drill slowly from right to left (from one side to the other) do not put the abrasive flat on the light, raise one edge approx 15 degrees off the light. After each pass come down one half width of your pad and repeat right to left again and so on until you have covered the area. If you hold the abrasive flat on the glass the abrasive will become blocked with dust and will not work. Regularly check the face of the abrasive and remove any buildup of dust. Repeat this process until your scratch damage has disappeared leaving a uniform clouded appearance. If you have heavier cloud in some areas, repeat the process. Do not move on until you have uniform cloudiness on the whole area. If you move on with heavier

clouding in some areas this will affect the end result and could leave a ghosting/haziness on the light.

## Step 2 – Scratch Refining.

If you start polishing with the 2000 abrasive – proceed to the final polishing stage.

Use an ample amount of water and clean paper towel to thoroughly remove any residue and loose particles from the entire surface. Repeat the previous process using the next finer grade 2000 disc. When you think that the scratches from the previous grade have been refined, wipe the surface clean and inspect the surface. Your working area should now have a very light, even, cloudy appearance with no patches or scratches remaining. You are now ready to start the final polishing stage.

## Step 3 – Polish

### Cleanliness is of the utmost importance in the final polishing stage.

Thoroughly clean the surface as in the previous steps to ensure that all dust and stray particles have been removed. Fit a polishing pad to the Backing Pad. The hard side of the felt pad goes onto the backing pad; the soft side goes onto the surface to be polished. Apply a pea size amount of the purple cutting compound to the middle of the polishing pad and place the face of the pad on the surface. Do not start the drill until the pad is against the surface being polished or the compound will splatter everywhere. Start the drill. Keeping the polishing face flat against the surface, move the drill slowly from left to right. Keep a nice even pressure against the surface as you move the pad backwards and forward over the surface. Do not stop in one area too long as the glass will get hot.

Repeat this process as many times as necessary until the light/tail light is visually clear. (Usually 2-3 times.) Remove all residues that remains by polishing dry.

Wipe the surface clean and inspect carefully. The light/tail light should now be crystal clear.

## Step 4 – Final Polish

The final stage is to apply one coating of polish.

Take a clean polishing pad and apply a small amount of pink polishing compound. Work over the surface as you did with step 3 and then wipe clean.

## Disclaimer

As this product is sold for Home Use on a Do-It-Yourself basis, it is sold with no warranty and/or liability for any glass, fittings or fixtures and/or any personal injury. Although all products contained in the kit are non-toxic and safe to use, please keep this kit out of reach of small children.