

 Preview Solution CBR-2487-1

Volvo Chassis - Hood Crack Near Headlamp - Model VN (4)

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Valid For

Volvo Chassis - VN (4)

Model year - 2025 to current

Purpose of this CBR is to address the issue with hoods cracking at the headlight.

Overview:

Headlight mounting is causing too much pressure on the inner corner on the driver side, causing hood to crack.



Required Parts:

- Sand paper-80, 180 and 320 grit paper
- Clean lint free cloths or rags
- IPA-solution for cleaning
- Fibril
- Fiberglass mesh
- Glaze (2 part)
- Measuring tape
- Primer

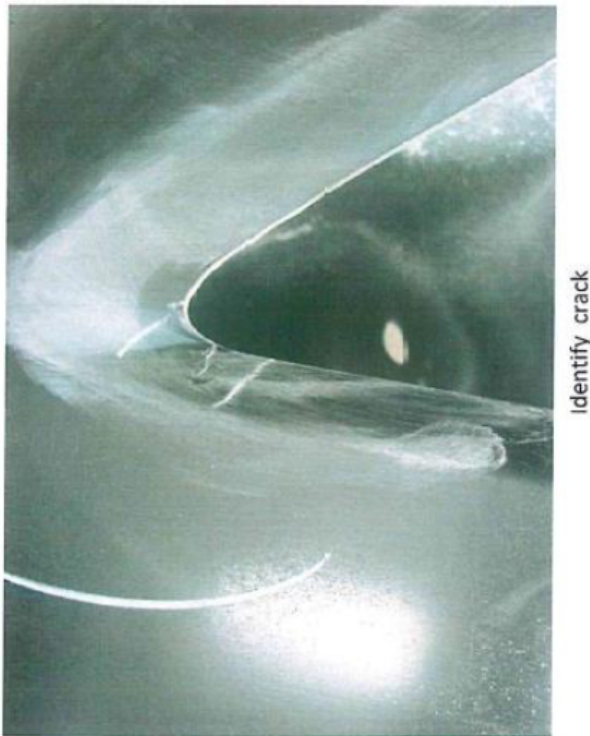
Tools required:

- Compressed air and lines
- DA/orbital sander (may not need, be careful to not over sand)
- Angle Grinder
- Burr Bit
- Hand drill
- 1/8" Drill bit
- Utility knife
- Gloves
- Spreaders/spatula
- Tape
- Paint guns
- Calibrated Force Gage

Short Description of the Solution:

Repairing cracked area Method:

1. Ensure work area has proper lighting



2. Sand Crack area to remove any Paint. IMC or Primer



3. Using an angle grinder, grind out around crack on outside (A) and inside (B) of the repaired area



4. Using a “Burr Bit”, burr out the crack front and back and blow off any dust

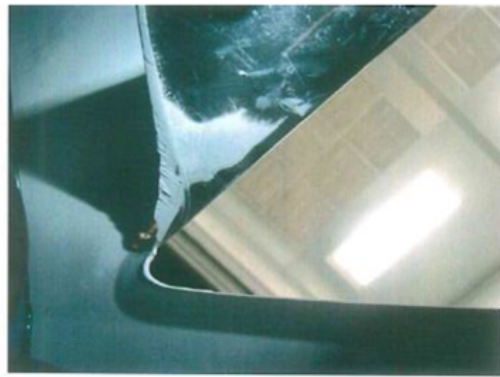


5. Drill a 1/8" hole in the area of the crack. Ensure the crack is within the hole (this will keep the crack from running or growing)





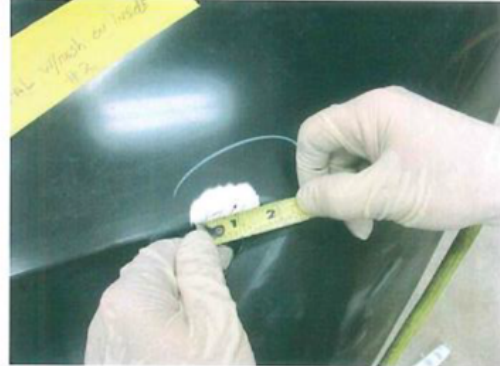
Grind top side at least 1 inch by 2 inches
(depending on crack size)



Grind under side of crack



Measure crack



Measure crack

6. Clean area on both sides of the hood, clean with IPA cleaner and clean rags or lint free paper/cloth. Ensure any dirt and foreign debris is removed
7. For B side- mix appropriate amount of "Fibral", fiber glass mesh and place on tape to be applied to the cracked area and let cure



Cut mesh to cover inside surface around crack



Measured tape



Measured tape

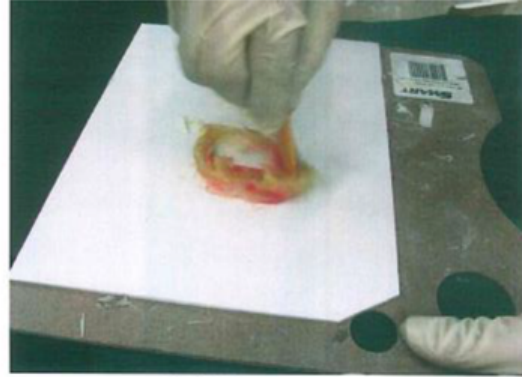


Dispense Fibral components

8. For A side- mix appropriate amount of “Fibral” and apply using approved spreader to an even amount and let cure



Appearance of incorrect Fibral mix



Mix Fibral components



Apply Fibral mix to mesh tape



Appearance of correct Fibral mix



Put tape upside down and layer Fibril and mesh on sticky side of tape so it will stick to under side of hood



Apply Fibril to crack area and remove tape when it sets up



Fibril applied



Dispense Fibril components and mix



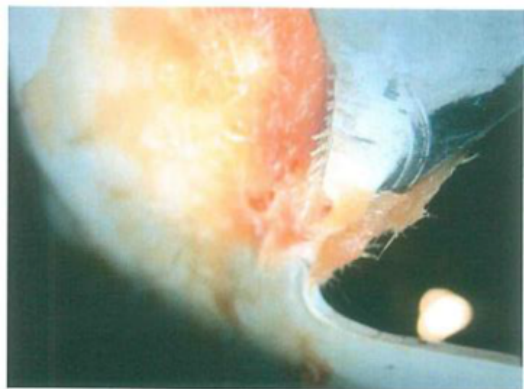
Sand Fibril with 80 grit sand paper



Fibril applied



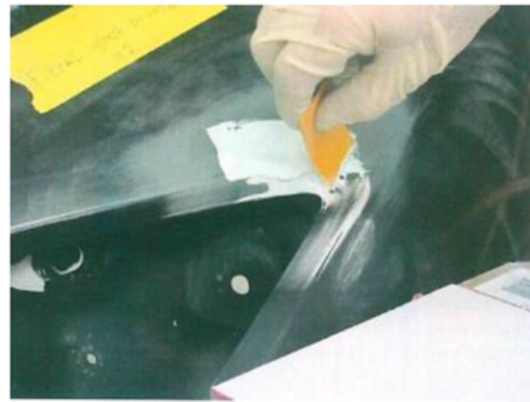
Blow surface off with air



Fibril applied



Scuff with 320 grit sand paper



Apply metal glaze to grinded area on top side



Blow surface off with air



Sand metal glaze with 180 grit sand paper

Once both sides have cured

1. Using 80 grit sand paper, sand areas even and clean (both A and B sides)
2. Ensure all dust is removed from repair, and then use IPA clean and clean rags or lint free paper to remove any dirt or foreign debris
3. Mix appropriate amount of glaze on mixing board and apply to areas that have been repaired and let cure
4. Once cured, using 180 grit paper, sand area to correct contour to provide clearance



5. Once new contour is achieved, then final sand prep using 320 grit paper
6. Ensure all dust is removed from repair, and then use IPA clean and clean rags or lint free paper to remove any dirt or foreign debris
7. Confirm headlight fitment with proper gap after repair. Remove more material if needed.
8. Mix/Prepare approved primer and apply to areas that have been repaired

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