

Volvo Chassis - Model VN - Crack At Corner Of The Hood Air Intake; Repair Procedure





> Internal Content

Tools



Compact Pneumatic Rotary Tool

Pneumatic Sander



High Pressure Blow Nozzle

Pneumatic Spray Gun

Supplies





West System® 105 Epoxy Resin West System® 205 Fast Hardener



Fiberglass Cloth - Cut into 4"x4" squares

Method Prerequisites - Procedure Steps

1. Crack Location - Detection

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2. Junace Preparation - Composite digging-grooving

- 3. Door opening method Access to B-Side Fender
- 4. Fiber Glass Patch Preparation
- 5. Resin Preparation Patch Impregnation
- 6. Repairing the back side of the crack damaged area
- 7. Repairing the A face-cosmetic of the crack damaged area
- 8. Drying Polymerization (Leister blowing)
- 9. Sanding P240 / P320 / P400 (Cosmetic Face)
- 10. Cleaning (Blowing IPA Wiping)
- 11. Puttying of the cosmetic A face (Product Prep + Application of putty)
- 12. Sanding P240 (if needed) P320 / P400 (Cosmetic A Face)
- 13. Cleaning PRTP Prep (Blowing IPA Wiping Deionization)
- 14. Primering PRTP
- 15. Curring (oven sequence)

Crack Location (Air Intake Area)



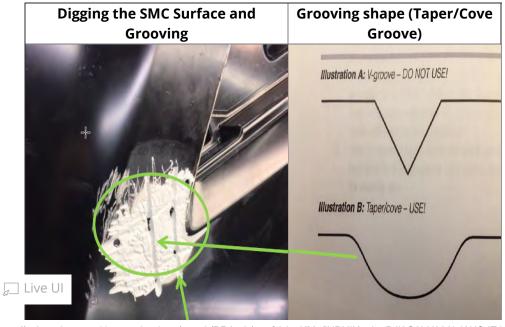
☐ Live UI ermine the location and path of the crack



A. Use a sand paper to remove all surface coating from the affected area

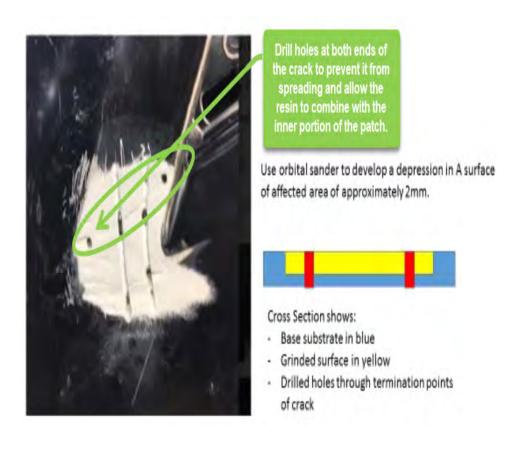
2. Prepare the surface for patching

Removed the damaged material and open up the cracks, use a medium grit sandpaper to sand slightly into the surrounding area. This will give you the ability to feather your repair into the undamaged surface. After you've finished sanding the surface, wipe down the surface with acetone one final time to remove dust and anything else that may disrupt adhesion.



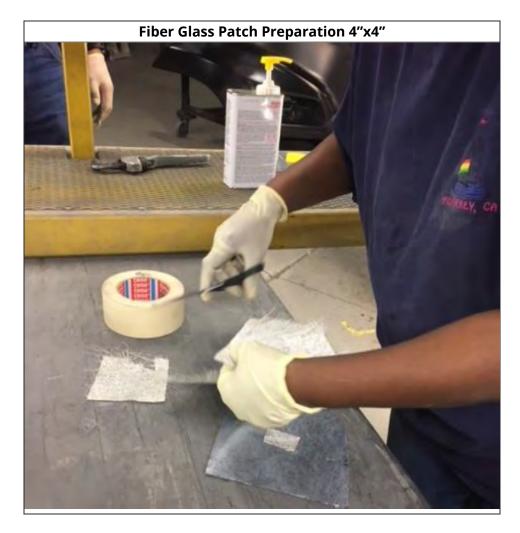
The second second	
Crack has to be in the center of the	Create a Taper/Cove groove, not
crossed grooves created	a V-grove

Door opening method - Access to B-Side Fender



Cutting the Fender reinforcement on 3 faces to create a visit window (4"x5") to access to B side fender	Access to the B side Fender by the window – Access to proceed to the repair on B side
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GF Patch 4" X 4" type cannot be changed

Resin Preparation – Patch Impregnation

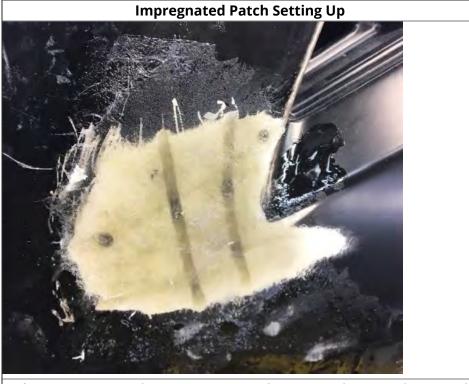


Repairing the back side of the crack damaged area

Impregnated Patch Setting up	Impregnated Patch Location
(2 Patches impregnated and superposed)	(2 Patches impregnated and superposed)
Live UI	



Repairing the A Face-cosmetic of the crack damaged area



After 2 minutes apply a paper tape on the wet patch to avoid sags and get a smooth surface

Drying - Polymerization

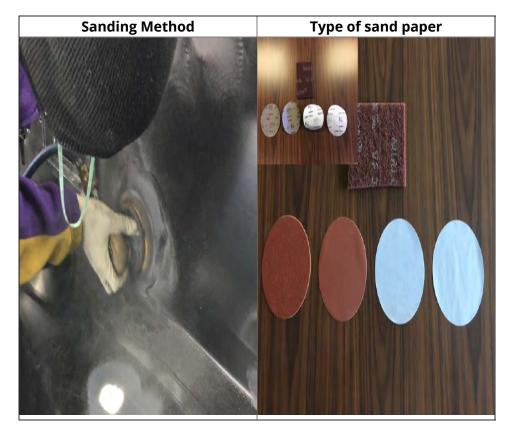
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(more if not cured) and with respect of the right distance to the subtract and the right Leister (heat gun) heating power

Leister (heat gun) need to be swept over the patch during 3 minutes



Sanding of resin patch - P80 / P240 / P320 (Cosmetic Face)



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Related links and attachments

No links or attachments available



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