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GROUP: Body

DATE: October 15, 2014

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SUBJECT:

Cosmetic Carbon Fiber Repairs

OVERVIEW:

This bulletin involves removing light to moderate surface conditions on carbon fiber finishes revealing a swirl-free, durable, protected finish.

MODELS:

2015

(4C)

Alfa Romeo 4C

SYMPTOM/CONDITION:

Isolated light to moderate surface conditions (scratches, scuffs, staining, hard water spots, etc.) on carbon fiber.

DIAGNOSIS:

NOTE: Thoroughly wash the suspect area before inspection or repair.

If the customer describes the symptom, inspect the carbon fiber to determine the extent of the defect. If the conditions below are found, proceed to the referenced procedure.

Surface Defect	Procedure
Significant Scratches	Carbon Fiber Cosmetic Correction Procedure
Light Scratches and Scuffs	Carbon Fiber Cosmetic Finishing Procedure
Staining and Hard Water Spots	Carbon Fiber Cosmetic Clay Bar Procedure

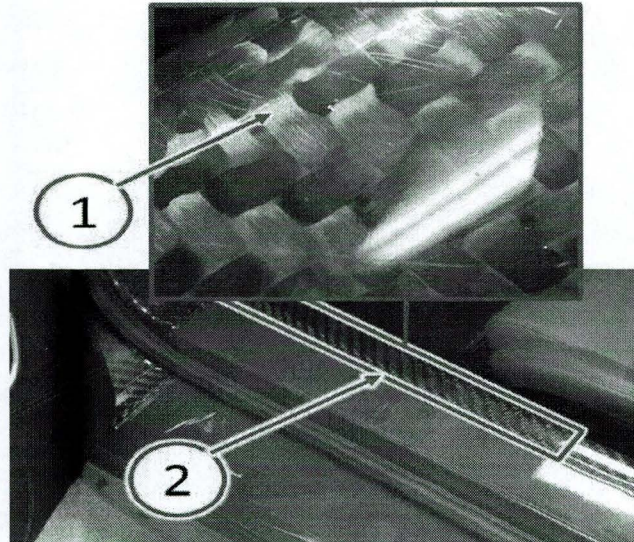


Fig. 1 Surface Condition

1 - Significant Scratches and Scuffs

2 - Left Lower Door Jamb

PARTS REQUIRED:

Qty.	Part No.	Description
1 (AR)	NPN	Meguiars M86 Solo™ Cut & Polish Cream, 32oz or Equivalent.
1 (AR)	NPN	Meguiars M99 Ultimate Wipe Detailing Cloth or Equivalent.
1 (AR)	NPN	Meguiars WWLC7 Solo™ Wool Light Cutting Pad 7" or Equivalent.
1 (AR)	NPN	Meguiars W8207 High-Tech Backing Pad or Equivalent.
1 (AR)	NPN	Meguiars W8207 Soft Buff® 2.0 Polishing Pad or Equivalent.
1 (AR)	NPN	Meguiars M34 Final Inspection, 16oz or Equivalent.
1 (AR)	NPN	Meguiars Mild Detailing Clay C2000 or Equivalent.
1 (AR)	NPN	Meguiars S1525 Mirror Glaze® Unigrit Finishing Paper 1500 Grit or Equivalent.
1 (AR)	NPN	Meguiars S2015 Unigrit Finishing Paper 2000 Grit or Equivalent.
1 (AR)	NPN	Meguiars S2525 Unigrit Finishing Paper 2500

Qty.	Part No.	Description
		Grit or Equivalent.
1 (AR)	NPN	Meguiars W68 Rotary Backing Plate For Soft Buff 2.0 Foam Pads or Equivalent.

SPECIAL TOOLS/EQUIPMENT REQUIRED:

NPN	Rotary Buffer
NPN	Safety Glasses
NPN	Extension Cord

NOTE: Measure and document clear resin film thickness before, during and after repair. Only .5 mil of clear resin removal is permissible for condition repair.

NOTE: Work in a 12”(305mm) x 12”(305mm) at a time. Always work on a cool surface, free of environmental contaminates.

NOTE: Always begin using the least aggressive method based on the condition.

RECOMMENDED CARBON FIBER COSMETIC CLAY BAR PROCEDURE:

1. Before removing any defects, wash the effected area with soap and water.
2. Work in a 12”(305mm) x 12”(305mm) area at a time and apply Meguiars Final Inspection or a detail spray equivalent to the effected area.
3. Using Meguiars Mild Detailing Clay C2000 or equivalent, work in a unidirectional pattern while the detail spray applied in Step #2 is still wet.

NOTE: Do not move the clay bar in a circular direction on the panel surface, it will create scratches.

4. If the defect cannot be removed using a clay bar, proceed to the carbon fiber cosmetic finishing procedure.

RECOMMENDED CARBON FIBER COSMETIC CORRECTION PROCEDURE:

NOTE: Always wear appropriate eye, skin and ear protection.

1. Mask and protect adjacent areas of the repair area prior to beginning the correction procedure (Fig. 2).

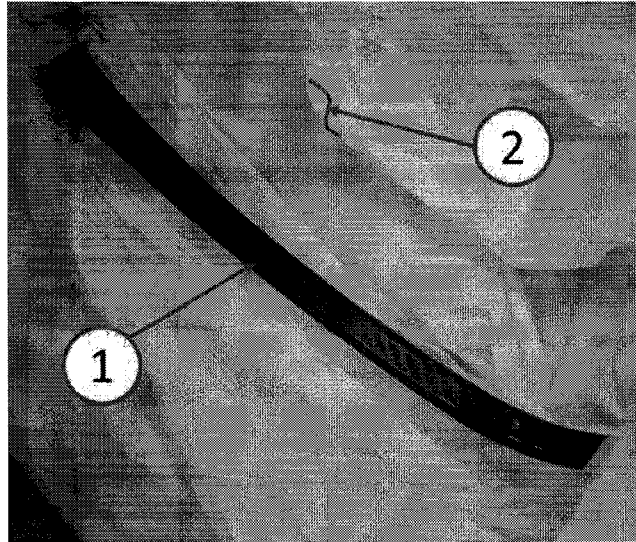


Fig. 2 Protect Adjacent Areas

- 1 - Left Lower Door Opening
- 2 - Protection Material

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2. Using Meguiars W8207 backing pad or equivalent, wrap Meguiars unigrit wet sandpaper or equivalent around it and block sand after wetting the defect area with soap and water. The defect should be sanded in three steps beginning with Meguiars unigrit 1500, followed by Meguiars unigrit 2000 and finish sanded with Meguiars 2500 grit or equivalent (Fig. 3).

NOTE: Always finish sand with Meguiars unigrit 2500 wet sandpaper or equivalent.

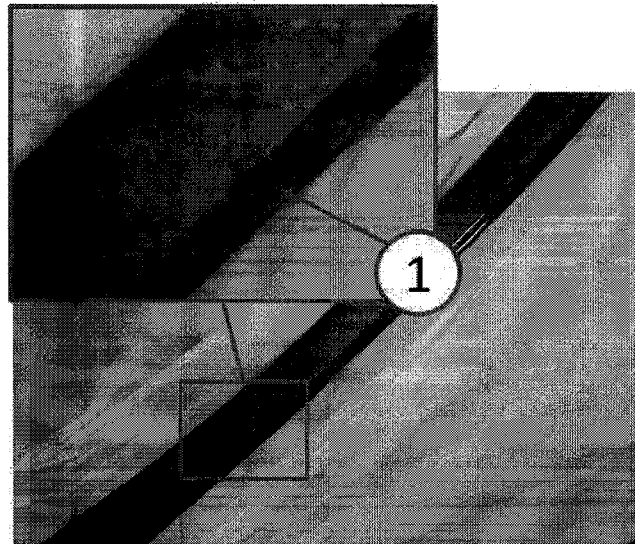


Fig. 3 Wet Sanding

1 - Wet Sanded Carbon Fiber

3. Set rotary buffer to a desired RPM, less than 1800 RPM.

NOTE: A rotary buffer must be used by a trained technician as it can permanently damage adjacent painted surfaces if not used correctly. Damaged painted surfaces can only be repaired by refinishing the affected vehicle panel.

4. Place a Meguiars WWLC7 Wool Light Cutting Pad or equivalent on the backing plate.

NOTE: Prime all new and dry pads with the desired wax or compound to prevent additional scratches on the carbon fiber finish.

5. Apply Meguiars M86 Solo™ Cut & Polish Cream or equivalent directly to rotary Meguiars WWLC7 wool light cutting pad or equivalent and begin using moderate pressure and overlapping passes followed by 2-3 light pressure passes (Fig. 4).

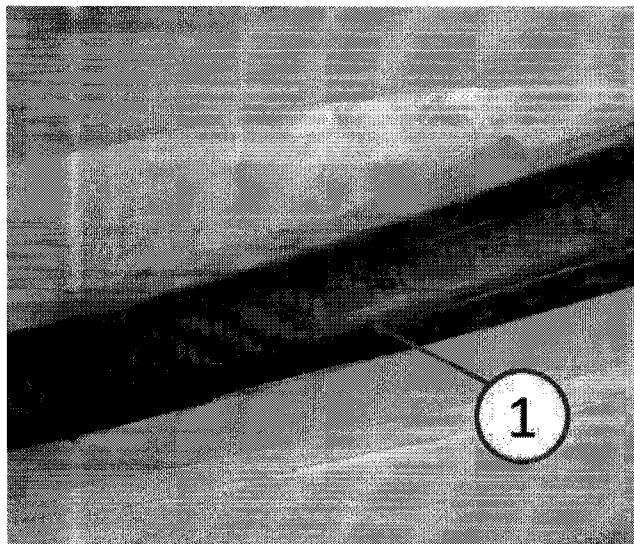


Fig. 4 Polish Residue

1 - Polish Residue

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6. Remove residue with Meguiars M99 Mirror Glaze® Ultimate Wipe Detailing Cloth or equivalent.

NOTE: For best results, wipe residue off using Meguiar's Ultimate Wipe Detailing Cloth (M99) or equivalent.

7. Continue working until the 2500 grit sand scratches have been removed.
8. Proceed to the carbon fiber cosmetic finishing procedure.

RECOMMENDED CARBON FIBER COSMETIC FINISHING PROCEDURE:

NOTE: Always wear appropriate eye, skin and ear protection.

1. Mask and protect adjacent areas of the repair area prior to beginning the finishing procedure (Fig. 5).

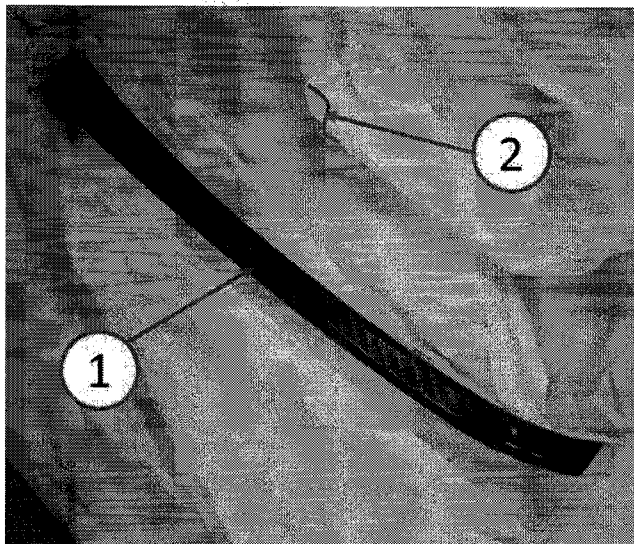


Fig. 5 Protect Adjacent Areas

- 1 - Left Lower Door Opening
- 2 - Protection Material

2. Set rotary buffer to an RPM setting less than 1200RPM.

NOTE: A rotary buffer must be used by a trained technician as it can permanently damage the adjacent painted surfaces if not used correctly. Damaged painted surfaces can only be repaired by refinishing the affected vehicle panel.

3. Place Meguiars W8207 Soft Buff® 2.0 polishing pad or equivalent on rotary backing plate.

NOTE: Prime all new and dry pads with the desired wax or compound to prevent additional scratches on the carbon fiber finish.

4. Apply Meguiars M86 Solo™ Cut & Polish Cream or equivalent directly to rotary Meguiars W8207 Soft Buff® 2.0 polishing pad or equivalent and begin using moderate pressure and overlapping passes followed by 2-3 light pressure passes (Fig. 6).

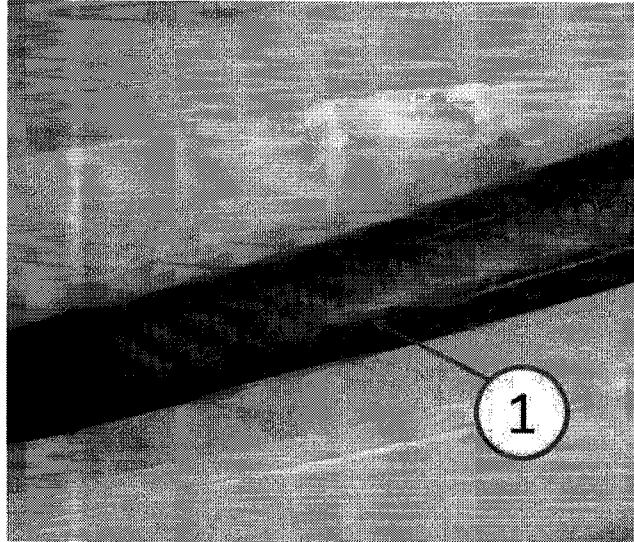


Fig. 6 Polish Residue

1 - Polish Residue

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5. After the defects have been removed and the finish is polished, wipe the polished areas with Meguiars M34 Mirror Glaze® Final Inspection or equivalent using Meguiars M99 Ultimate Wipe Detailing Cloth or equivalent. This will yield added depth, shine and protection (Fig. 7).

NOTE: If the defect has not been removed, repeat the carbon fiber cosmetic correction and finishing procedure.

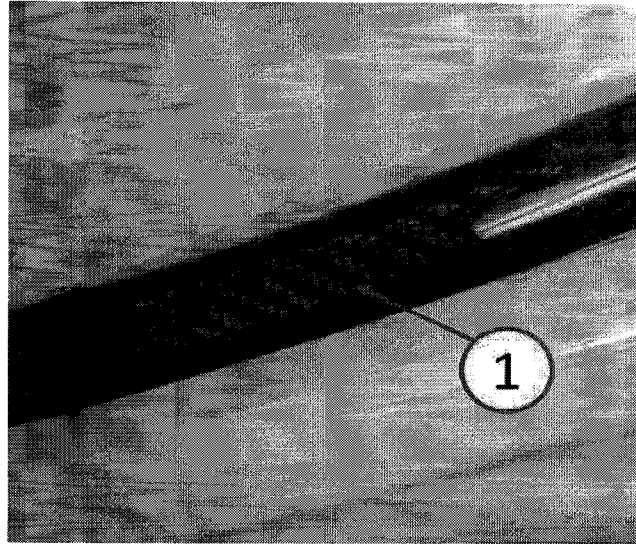


Fig. 7 Surface Condition Removed

1 - Polished Finish, Defect Removed

FAILURE CODE:
Information Only