Two-Sided Bumper Repair
Cracks, Holes & Punctures

1

Clean the Damaged Area
Clean the front and back of the repair area with soap and water, followed by a VOC compliant surface cleaner.

2

Prepare for Reinforcement Material
Apply Aluminium autobody repair tape to the front side of the repair to align and secure the damage while the back side reinforcement is being completed. On the back side, use a DA with grade 80 abrasive disc to sand the repair area where the reinforcement patch will be applied. Blow off with clean, dry air and apply adhesion promoter, allowing 5 minutes to dry.

3

Apply Reinforcement Material
Apply alternating applications of thin, wet coats of semi-rigid plastic repair material and reinforcement cloth on the damaged area. Allow dry time of 15 minutes at 24°C.

4

Tapering the Front Side
Remove the Aluminium tape. Grind the front damage using a 75mm grade 60 disc or grade 36 file belt at a low speed to create a gradual "Dish Out" area 75mm wide and deep enough to expose a 6mm wide strip of the back side reinforcement material through the center of the damage.

5

Preparing the Repair Area
Use a DA with grade 80 abrasive disc to create a smooth transition into the dished area, remove any melted plastic and create a fuzzy surface for the adhesive. No shiny plastic areas should remain. Abrade with grade 180 around the dished out area where the adhesive will eventually be featheredged.

6

Mix and Apply Flexible Filler
Blow off the front side repair area with clean dry air, apply aerosol adhesion promoter and allow to dry for 5 minutes. Mix and apply flexible filler material with an initial "tight coat" immediately followed by additional coats to fill in all low areas. Allow 15 minutes to cure at 24°C.

7

Sand Flexible Filler
Use a DA to sand the flexible filler material with a grade 120 abrasive disc, followed by a block with grade 180.

8

Final Sand and Inspect
Use a DA sander to finish sand the repair area using P320 abrasive disc. Blow off and inspect the repair quality. Repeat steps 6 and 7 as necessary.

Product List

3M™ Polyolefin Adhesion Promoter, 340g aerosol, PN 05907

3M™ Plastic Repair Material Semi-Rigid, 200ml, PN 04240

3M™ Reinforcement Patch, 12.7cm x 3.65M, PN 04904

3M™ Pistol Grip Disc Sander, PN 33577

3M™ Cubitron™ II Fibre Roloc™ Disc, grade 60+, PN 33391

3M™ Mini File Belt Sander, 330mm PN 33573

3M™ Cubitron™ II File Belt, 10mm x 330mm, grade 36+, PN 33437

3M™ EZ Sand Multi-Purpose Flexible Adhesive, 200ml, PN 05887
50ml, PN 35887

3M™ Performance Manual Applicator, 200ml, PN 08117

3M™ Purple Clean Sanding Hookit™ Disc, 75mm P320, PN 30275
150mm P320, PN 01812

3M™ Cubitron™ II Clean Sanding Hookit™ Abrasive Disc,
75mm 80+, PN 31361
75mm 180+, PN 31364
150mm 80+, PN 31371
150mm 120+, PN 31373
150mm 180+, PN 31374

Think About Your Health

3M™ E-A-R™ Skull Screws™ Ear Plug, PN P1300

3M™ Half Face Welding Respirator Kit, PN 6228

3M™ Secure Fit™ 200 Series Anti-fog Eyewear, Clear Frame, PN 201AF-AS

Not a complete list. Select protective eyewear, appropriate gloves, hearing protection, respirator and protective clothing based on your job and exposure assessment.

Note: We do not recommend a final coat of 3M™ Polyolefin Adhesion Promoter (PN 05907) after the final sanding. The paint companies all recommend their own paint adhesion promoters and applying the PN 05907 may cause a compatibility issue.