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Aluminum Repair Procedures Body Repair

Aluminum Rivet Bonding		Product List	
1	Host Panel Preparation Using a grade 80 abrasive belt, remove remaining rivet material from host panel. Prep remaining mating flanges on host panel with a coarse Scotch-Brite [™] Durable Flex Belt.	3M [™] File Belt Sander, 18 in., PN 33575	
2	Mating Flange Panel Preparation Remove E-coat from replacement panel mating flange areas using a Scotch-Brite [™] Belt or Clean and Strip Disc.	3M [™] Cubitron [™] II File Belt, grade 80+, PN 33446	ELETARIA
3	Dry Fit Panel Dry fit replacement panel and complete any necessary metal straightening at flanges areas.	Scotch-Brite™ Durable Flex Belt, CRS, PN 64475	
4	Clean Clean host panel and replacement panel mating flange areas with a VOC compliant surface cleaner.	Scotch-Brite [™] Roloc [™] + Clean and Strip XT Pro Disc, PN 21552	Ð
5	Rivet Preparation Identify replacement rivet sites and prepare the surface for the type of rivet recommended by the manufacturer. (For blind or solid rivets, drill all necessary holes.) Remove panel once complete.	Scotch-Brite [™] Roloc [™] + Clean and Strip XT Pro Extra Cut Disc, PN 21555	
6	Pre Assembly NVH Replacement If vehicle construction necessitates, apply 3M [™] NVH Dampening Material or 3M [™] Flexible Foam at original locations as required.	3M [™] NVH Dampening Material, PN 04274	
7	Apply Bonding Adhesive Apply adhesive to mating flange areas on host panel and replacement panel covering all bare metal areas. Apply additional bead of adhesive at mating flange area to ensure proper bond line thickness.	3M [™] Flexible Foam, 200mL, PN 08463 	
8	Install Replacement Panel Install replacement panel to host panel taking care to avoid scraping off any adhesive during installation. Clamp in place.	200mL, PN 08116; 450mL DMS, PN 58115 3M [™] Composite and Metal Bonding Adhesive,	
9	Install Rivets and Welds Install replacement rivets to all areas as recommended by the OE manufacturer. Note: Rivets must be installed while adhesive is uncured. Weld cosmetic joints/splices as necessary or recommended by the OE Manufacturer.	200mL, PN 08219 3M [™] Rigid Pillar Foam, 200mL, PN 08458	
10	Adhesive Clean Up Remove clamps and tool excess adhesive squeeze out from repair area prior to curing to seal the repair. An acid brush	Think About You	r Health
	works well to remove adhesive from between clamps. Note: Grinding to remove excess cured adhesive can expose bare metal, causing corrosion.	3M™ E-A-R™ Skull Screws™ Ear Plug, PN P1300	
11	Post Assembly Foam Replacement Apply foams at original locations as required.	3M [™] Half Facepiece Respirator, PN 07182	
Visit 3MC	ollision.com for more SOPs and videos	3M [™] Virtua [™] Protective Eyewear, PN 11326	the second second

Note: Follow recommended internal corrosion protection processes prior to vehicle final assembly.

Individual Product Instruction and Safety Information

For individual product instructions and applicable precautions see product labels and associated literature for the individual product at **3MCollision.com**

For product material safety data sheets see 3MCollision.com

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3M Automotive Aftermarket Division 3M Center, Building 223-6S-07 St. Paul, MN 55144-1000 U.S.A.

Web 3MCollision.com

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