













Weld Bonding (Excluding Door Skin)		
1		<p>Host Panel Preparation</p> <p>Using a grade 80 abrasive belt, remove remaining weld nugget material from host panel. Prep remaining mating flanges on host panel with a coarse Scotch-Brite™ Belt to remove all adhesive, corrosion and coatings.</p>
2		<p>Mating Flange Panel Preparation</p> <p>Remove Ecoat from replacement panel mating flange areas using Scotch-Brite™ Belt or Clean N Strip disc.</p>
3		<p>Clean</p> <p>Clean host panel and replacement panel mating flange areas with a VOC compliant surface cleaner.</p>
4		<p>Dry Fit Panel</p> <p>Dry fit replacement panel and complete any necessary metal straightening at flanges areas.</p>
5		<p>Weld-Thru Primer</p> <p>Use Scotch-Brite™ Belt to prepare metal surfaces. Clean and apply weld-thru primer to all areas requiring MIG welding.</p>
6		<p>Spot Weld Surface Preparation</p> <p>Identify replacement spot weld sites and remove Ecoat using Scotch-Brite™ belt where spot weld tips will contact host and replacement panel. Remove panel once complete.</p>
7		<p>Pre-Assembly NVH Replacement</p> <p>If vehicle construction necessitates, apply NVH material or foams at original locations as required.</p>
8		<p>Apply Bonding Adhesive</p> <p>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 areas.</p>
9		<p>Install Replacement Panel</p> <p>Install replacement panel to host panel. Clamp in place.</p>
10		<p>Spot Weld</p> <p>Spot weld while adhesive is uncured at prepared weld sites. Follow welder settings determined from test panel.</p>
11		<p>Adhesive Clean Up</p> <p>Remove clamps and tool excess adhesive squeeze-out from repair area prior to curing to seal the repair. Note: Grinding to remove excess adhesive can expose bare metal, causing corrosion.</p>
12		<p>Post-Assembly Foam Replacement</p> <p>Apply foams at original locations as required.</p>

⚠ WARNING

Follow OEM and/or welder manufacturers' recommended procedure for making and testing welds. Before welding on a vehicle, test welds must be made to ensure proper weld quality and welding machine settings.

Product List

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

- 3M™ Cubitron™ II File Belt, 10mm x 330mm, 80+, PN 33440 

- 3M™ Scotch-Brite™ Durable Flex Belt, CRS 

- Scotch-Brite™ Roloc™ Clean N Strip XT Disc CX-DR 

- Scotch-Brite™ Roloc™+ Clean N Strip TR Disc, PN 07466 

- 3M™ Weld-Thru Coating II, PN 05917 

- 3M™ Flexible Foam, 200ml, PN 08463 

- 3M™ Impact Resistant Structural Adhesive 200ml, PN 07333 

- 3M™ Panel Bonding Adhesive, 200ml PN 08115
50ml PN 38315 

- 3M™ Rigid Pillar Foam, 200ml PN 08458 

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