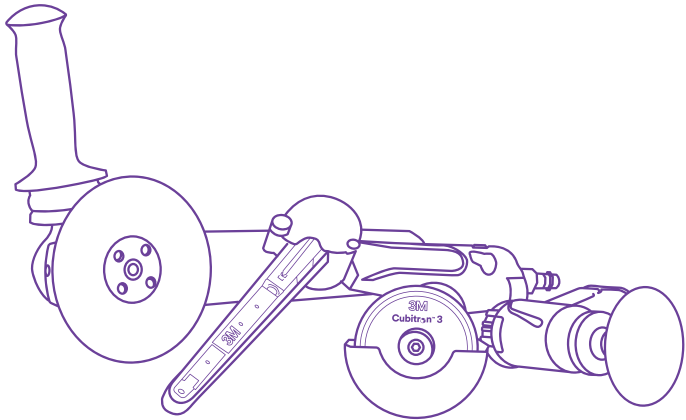


Cut through the complexity of today’s vehicle repairs.

What causes imperfections and how the right abrasive selection can help eliminate them.



Small errors can lead to significant problems.



How these imperfections are **caused**:



How these imperfections can be **avoided**:

Manage risk with proper tools and modern abrasive technology.

Quality matters and directly impacts the repair outcome.

The details on stability, precision, and protection of body repair.

Metal Warping & Thinning

Overly aggressive abrasives can cut into the substrate and thin the material underneath, making reshaping difficult and increasing the risk of long-term warping.

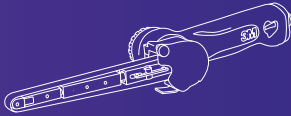


Remove paint, coatings and welds without thinning or damaging the substrate.

Proper abrasive selection helps to control heat, prevent distortion and maintain substrate integrity.

Excessive Heat & Distortion

Coarse or outdated abrasives and grinding wheels lead to more grinding, which creates more heat and damage. The excess heat can distort metals, damage adhesives in the joint, or affect adjacent structures.



Use modern, fast cutting abrasives to reduce time on the panel and prevent heat buildup.

Remove and refine welds quickly and cleanly with reduced heat leaving minimal scratch refinement.

Metal Stretching

Low quality cut-off wheels can slow the job and generate excess heat, undermining the precision required and subtly stretching the metal in ways that affect new panel fit.



Reduce the risk of hidden damage with premium abrasives.

In tight areas, use specialized tools that allow controlled plunge cuts without cutting into inner reinforcements.

Techniques to enhance higher quality repairs:

From dent repair to weld refinement to cutting panels, using the right abrasives helps ensure strong welds, proper fitment, and long term performance. These results help provide higher quality repair with reduced risk of corrosion, distortion, and structural failure over time.

Refining stitch welds in tight areas

- Use file belts only for initial weld removal, not for corner refinement
- Switch to a Roloc grinder with a fresh disc for precise corner work
- A new disc’s sharp outer edge reduces heat and improves control
- Helps prevent gouging, panel damage, or burn-through in thin metals

Importance of premium abrasives in structural repair

- High performance abrasives remove material in seconds, not tens of seconds
- Lower heat generation reduces risk of distortion or adhesive damage
- Supports stronger, more accurate structural repair outcomes
- Ensures long term durability and OEM-level finish

Controlled process for removing spot welds with a file belt

- Perform a “test weld removal” to determine the correct grinding time
- Count grinding seconds to avoid cutting into inner reinforcements
- Goal is weakening only the top panel so it separates cleanly
- High quality abrasives cut faster and cooler, improving safety and consistency

Everything you need to get the job done right.

3M™ Cubitron™ 3 Roloc Discs
3M™ Cubitron™ 3 Roloc Disc Tool

3M™ Cubitron™ 3 File Belts
3M™ Cubitron™ 3 File Belt Tool

3M™ Cubitron™ 3 Cut-Off Wheels
3M™ Cubitron™ 3 Cut-Off Wheel Tool

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