

MOTOR GUARD

MAGNA-STITCHER™

NEW FROM MOTOR GUARD

MODEL MS-1-KIT

DO PLASTIC REPAIR WITH YOUR STUD WELDER

PATENT PENDING

MAGNA STITCHER

TM



Motor Guard is pleased to present the latest item in their comprehensive line of autobody repair and refinishing products. The **Magna Stitcher™** provides an economical solution for plastic repair by turning your stud welder into a plastic repair tool. **The Magna Stitcher™ fits all popular stud welders** and provides all the features of a plastic repair system at a fraction of the cost.

The MS-1 works by welding a rigid stainless steel stake into the surface of the plastic resulting in a permanent repair of the crack. Repairs can be made on flat surfaces, tabs, holes, ribs, inside and outside corners.

The **Magna Stitcher™** can be used to repair Bumpers, Fascias, Spoilers, Headlamp Brackets, Radiator Brackets, Interior Components, Underbody Structures, Wheel Wells, Panel Mounting Tabs and any thermoplastic part. This economical attachment can also be used for quick, on-the-vehicle repairs such as mounting tabs underbody components and other out-of-sight components. **Simply stitch and go!**

Once the back of the broken part is stitched, the cosmetic repair and refinishing can be completed on the outside of the part.

Each **Magna Stitcher™** Kit (Model MS-1-KIT) contains:

- (1) Magna Stitcher™ Adapter (MS-1)
- (25) S Shaped Stakes for Flat Surface Repair (MS2004)
- (25) M Shaped Stakes for Tabs and Narrow Sections (MS2005)
- (25) V Shaped Stakes for Inside Corner Repair (MS2006)
- (25) W Shaped Stakes for Outside Corner Repair (MS2007)
- (1) Handy and Durable Storage Case

The **Magna Stitcher™** is the latest addition to a full line of repair and refinishing products. From Pulling to Painting, Motor Guard Corporation has a product for all of your autobody repair and refinishing needs.



MOTOR GUARD CORPORATION

MANTECA, CALIFORNIA • (209) 239-9191 • FAX (209) 239-5114 • www.motorguard.com

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INSTRUCTIONS FOR USE

IMPORTANT SAFETY INSTRUCTIONS:



Always wear proper personal protection when operating welder. Proper eye protection is required to reduce the risk of eye injury from sparks and flying pieces.



Scan with Smartphone
for an instructional video

INSTALLATION OF TOOL:

Install **Magna-Stitcher™** end of stud welder as shown in Figure 1. Tool must be seated firmly against insulator. Tighten knob snugly but do not over-tighten as thread damage may result.

GENERAL REPAIR PROCEDURE WITH MAGNA STAKES™

Insert stake into electrodes as shown in Figure 2. Three positions are available to insert stakes at different angles.

Place stake against surface to be repaired while applying very light pressure. Squeeze trigger on welder gently two or three times for 1/2 second intervals. A few short pulls on the trigger is enough to heat the stake and melt the plastic part. **Overheating the stake may damage the part.**

While continuing to apply light pressure, allow the stake to sink halfway through the thickness of the work piece. After stake is inserted to proper depth, twist the stake slightly to allow it to lock into the panel.

Allow the stake to cool for 2 or 3 seconds before removing tool. Trim exposed ends of stake using wire cutters (Figure 7). **Take care while trimming stakes as flying pieces can cause injury to operator or bystanders. Eye protection should be worn at all times.**

Complete cosmetic repair on front of panel as needed.

REPAIR OF FLAT AREAS

Prepare area to be repaired. Insert an S-Shaped Magna-Stake™ (MS2004) into the **Magna-Stitcher™** tool.

Set stake across crack as shown in Figure 3. Insert stake per instructions above, halfway through panel thickness, and give stake a slight twist before allowing to cool. Space stakes on 1/2 to 3/4 inch intervals or as needed for strength.

REPAIR OF TABS AND THIN SECTIONS

Prepare area to be repaired. Insert an M-Shaped Magna-Stake™ (MS2005) into the **Magna-Stitcher™** tool.

Set stake across crack as shown in Figure 4. Insert stake per instructions above, halfway through panel thickness, and add additional stakes as needed for strength.

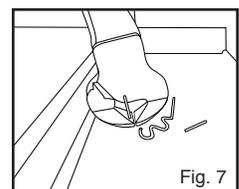
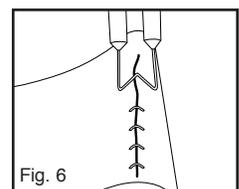
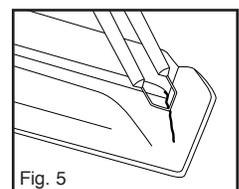
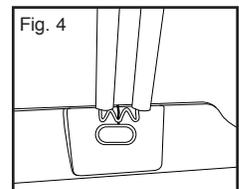
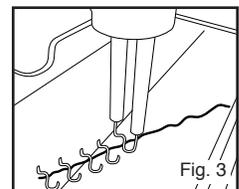
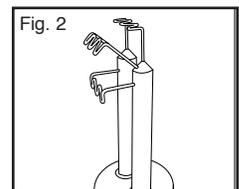
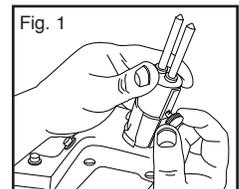
REPAIR OF INSIDE OR OUTSIDE CORNERS

Prepare area to be repaired. Insert a V-Shaped Magna-Stake™ (MS2006) or a W-Shaped Magna-Stake™ (MS2007) into the **Magna-Stitcher™** tool.

Set stake across crack as shown in Figures 5 and 6. Insert stake per instructions above, halfway through panel thickness, and give stake a slight twist before allowing to cool. Space stakes on 1/2 to 3/4 inch intervals or as needed for strength.

COMPLETING THE REPAIR

Trim stake ends (Figure 7) and complete repair on front of panel as needed.



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