

E36 Diff Support Bracket

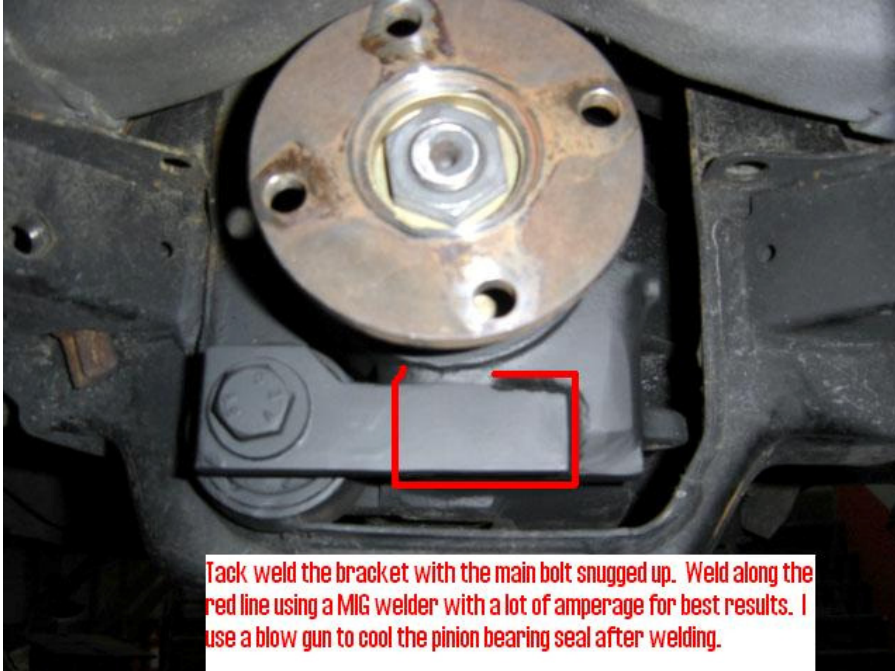
Enclosed are pictures of the bracket welded in place. For best results, the bracket and diff case should be cleaned and prepped prior to welding. The bracket needs to be bare metal anywhere that it will be welded. The area under the bracket sometimes has a slight peak and a small amount of sanding/grinding helps the bracket sit flush against the diff.

To install, Drop the rear exhaust section and bend the heat shield upwards to make some room. Remove the old diff bolt. If you are one of the unlucky ones that has a snapped bolt it may be necessary to remove the entire diff to extract the broken bolt. Install the support and spacer using the longer supplied bolt and washer like the pictures, and tighten it up until it is almost tight. Snug things up after final welding and you are ready to go.

For best results MIG weld the bracket using a 220v welder and mild steel wire. We have installed 100+ brackets using this technique and haven't had a single call about a diff bolt failure.

We have also TIG welded the brackets on earlier with equally good results. We don't preheat or use any special nickel alloy wire/filler rod. You may achieve better results with a mild preheat and using a rod with a nickel alloy designed for welding cast parts.

Make sure you get good penetration and weld around as much of the perimeter as possible. See the pictures for details.



Tack weld the bracket with the main bolt snugged up. Weld along the red line using a MIG welder with a lot of amperage for best results. I use a blow gun to cool the pinion bearing seal after welding.

