

RUST REMOVAL MADE EASY

NO WELDING REQUIRED!

YOUR STEP-BY-STEP GUIDE TO REMOVE RUST LIKE A PRO!



**REMOVE RUST FAST
WITH EASY DIY SOLUTIONS!**

No Welding Required Rust Removal Guide

Remove rust and repair your car without a welder in __ easy steps



Disclaimer: Completely cutting rust out of your car and welding a new piece of metal is the best long term solution. However, you can make a temporary repair (which we will go over in this guide) that can last up to 10 years.

The key to this technique is using a combination of tools and chemicals to neutralize the rust so that it does not come right back. From there, I will show you how to build back the area using body filler.

SAFETY EQUIPMENT

You are not going to want to breathe in anything that will come off of your car while removing the rust, neutralizing the rust or building back the area that you repaired.

Here is the safety equipment that I use.

3M Face Mask

Pair this mask with the safety glasses/goggles of your choice



[Buy on Amazon](#)

60923 Respirator Cartridges

Be sure to change these out after a major repair or paint sessions



[Buy on Amazon](#)

SAFETY EQUIPMENT

Parcil Distribution Full Face Mask

You can use the 60923 replacement cartridges on the previous page with this mask. IT is a great mask that I used when I was sandblasting and painting the undercarriage of the Del Sol.



[Buy on Amazon](#)

Yiber Hazmat Suit Disposable Coverall

This suit comes in a number of different sizes. They are great for protecting your hair, skin and clothing from paint and it will keep the sand out of your hair and clothes while sandblasting.



[Buy on Amazon](#)

RUST REPAIR

Ryobi One+ 18v 5" Random Orbit Sander

You will need 18v Ryobi batteries to power this tool. This tool was heavily used on the Del Sol restoration series. It is great for big areas as well as can be used to sand down the entire car for paint prep.



[Buy on Amazon](#)

WEN Cordless Detail File Sander

This sander is great for smaller areas or needing to cut out rusty holes, etc.. This tool is used a lot during the 1991 Honda CRX restoration series.



[Buy on Amazon](#)

RUST REPAIR

Sand Paper Guide



- 40 and/or 80 Grit
 - Used for very aggressive sanding. For example, cutting into a majorly rusted area, sanding down a very high point of Bondo, etc.
- 120 Grit
 - Once the 40 or 80 grit sand paper has been used, this is a great grit to use for getting the surface much smoother. You will still have some deep scratches that will need to be worked out and sanded down still.
- 240 Grit
 - This is a good grit to use if you are needing to sand down even more high points left over from the 120 grit sand paper.
- 320 Grit
 - Use this to further smooth out the area that the 240 grit sand paper has worked on to get the area much smoother and to reduce the scratches.
- 320/400 Grit
 - 320 or 400 are great to use before painting. 400 is going to give a smoother finish, however, some people argue that 320 grit is better prep for spray can paint. For the Del Sol, I used 400 grit for reference.

RUST REPAIR

Sand Paper Guide



- 600 Grit
 - This grit is great for sanding down the base coat of paint before adding your pearl/flake or 2k Clear Coat. I used 600 grit to re-clear the bumpers, side skirts and spoiler on the Del Sol.
- 800 Grit
 - This can also be used to sand down the base coat of paint before adding your pearl/flake or 2k Clear Coat - however, the cuts this grit leaves may be too fine for the additional layers of paint to adhere.
- 1,000 Grit
 - Once the 2k clear coat has the appropriate time to cure (see manufacturer's recommendations for your specific 2k clear) this is an excellent grit sand paper to start with. I like to use wet/dry sand paper for this stage and wet sand. This prevents further scratches into the finish of the paint/clear coat.
- 1,500 Grit
 - Use this to smooth out any areas that need it after using the 1,000 grit sand paper.
- 2,000 + Grit
 - These can be used to remove fine blemishes and get a super smooth finish.

RUST REPAIR

Sand Paper Products



Throughout the Del Sol series I used a number of different brands. The best brands I used were 3M, Dura Gold and Vibratite. Here are the links for each:

3M Hookit Gold Disc

Great for the Ryobi Cordless Sander or Corded D.A. of your choice. You can also use these with the recommended sanding blocks for hand sanding.



[Buy on Amazon](#)

RUST REPAIR

Sand Paper Products

Dura-Gold Premium Sanding Discs

Dura-Gold Premium Wet or Dry Sanding Discs come in a number of sizes and work great for powered and hand sanding applications.



[Buy on Amazon](#)

Vibratite by Maxman Sandpaper Sheets

I used these when I hand sanded the Del Sol's bumpers and spoiler. They are excellent quality and I got a lot of use out of each sheet.



[Buy on Amazon](#)

RUST REPAIR

Opsho 605 Metal Treatment

Once the rusty area is sanded or wire wheeled down, applying some Opsho either by dabbing it onto a shop towel and then applying it to the affected area or spraying it with a spray bottle will neutralize rest of the remaining rust. Allowing the Opsho to sit for 10 to 15 minutes and then rinsing with clean water to neutralize the Opsho is what worked best for me with the Del Sol. Always use a test area on your vehicle before applying a lot of this product. And always allow the area to fully dry before any Bondo or paint is applied to the repaired area.



[Buy on Amazon](#)

Zep Professional Sprayer Bottle

These are the bottles that I use for Opsho and clean water for rinsing. This 3 pack is great to have on hand so that you have a spare ready to go if needed.

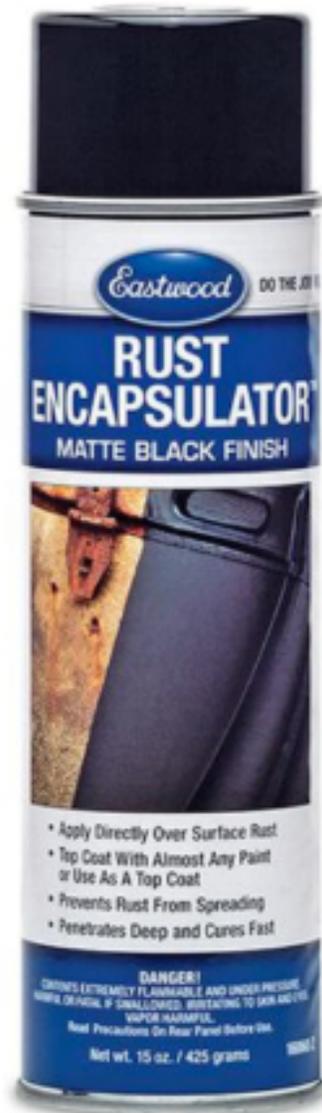


[Buy on Amazon](#)

RUST REPAIR

Eastwood Rust Encapsulator

When I restored the rear end of the Del Sol, this is the black paint I used. I used it on the rear reinforcement bar, rear end of the car and on the rear bumper beam. I also used it to restore the front bumper beam. In the CRX DIY restoration series, you can see how I used this to rust encapsulate for the entire interior of the shell.



[Buy on Amazon](#)

Body Work Prep

Eurow Microfiber Cleaning and Drying Cloths

This dispenser box contains a 50 pack of 12" x 12" microfiber towels. They are great for wiping off areas with Isopropyl alcohol and for ensuring that an area is dust free and dry. These are the cloths I used throughout the entire Del Sol DIY restoration series.



[Buy on Amazon](#)

Isopropyl Alcohol Grade 99%

I used a lot of Isopropyl on the Del Sol. It is great for degreasing, removing all kinds of gunk from the surface, getting paint off a number of surfaces and more. I personally buy it by the gallon, but there are smaller bottles you can purchase from Amazon like the MaxTite brand which I have pictured and linked below.



[Buy on Amazon](#)

Body Filler

Bondo Body Filler

This is what I used to perform numerous repairs on the Del Sol - including rebuilding the bottom of the passenger side quarter panel.



[Buy on Amazon](#)

Bondo Hair

These are my favorite body filler spreaders that I have tried so far! They do not get easily chipped from scraping off cured Bondo, they are flexible and at the same time ridged



[Buy on Amazon](#)

Body Filler

Popsicle Sticks/Tongue Depressors

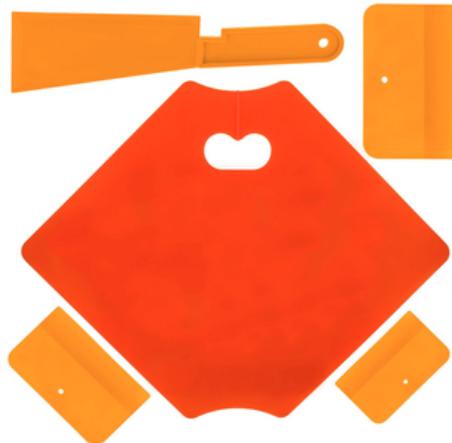
When you first open the Bondo can (whether it is body filler or Bondo hair) you will need to mix it thoroughly since it can settle and separate when stored. These wooden sticks are perfect for mixing up the Bondo before you take it out of the can - and they are great for taking small or large amounts of Bondo out of the can.



[Buy on Amazon](#)

Custom Shop Body Filler Mixing Board

The picture on Amazon's site is not what this board actually looks like - it is white and pretty square with rounded corners. Anyway, it is a great board that I have gotten a lot of use out of. This is much better than using cardboard. Not a need to have - more like a nice to have.



[Buy on Amazon](#)

Body Filler

Custom Shop 4-Piece Body Filler Spreaders

I have tested out quite a few different types of body filler spreaders and these are my favorite! They are rigid yet flexible and they are much easier to clean off. Unlike the plastic spreaders, these cannot easily get chipped up from cleaning them off with the flat razors highlighted on the previous page.



[Buy on Amazon](#)

Schneider Vinyl Synthetic Exam Gloves

You are not going to want to get any of this stuff on your hands while working on your car. These gloves are cost effective and come in a bunch of sizes.



[Buy on Amazon](#)

Touch Ups/Paint Prep

3M Bondo 907 Glazing and Spot Putty

I used this stuff quite a bit once I got closer to painting my Del Sol. It is great for small divots, chips, etc. that do not require Bondo. You can only order a 4 pack from Amazon, however, your local auto store should have single tubes for sale.



[Buy on Amazon](#)

Rust-Oleum 2-in-1 Filler & Sandable Primer

I primed the entire Del Sol in this stuff. While it does not spray consistently and for large areas can leave a spotty appearance, it is great for small to mid sized repairs. It's sands really easily as well and even fills in small scratches. It is also a rust preventative.



[Buy on Amazon](#)

Paint Prep

High Density Painter's Plastic Sheeting

I used this sheeting to cover anything in my garage that I did not want to get overspray on when I painted my Del Sol. I also used it to cover the windshield and windows.



[Buy on Amazon](#)

MyLifeUNIT Tape and Drape

This masking plastic comes with tape already on it. It makes it very easy to tape off windows for paint and I used it a lot to tape off the entrance to the Del Sol while I was doing body work. Definitely handy to have. It comes in 3 different sizes as well which is nice.



[Buy on Amazon](#)

Paint Prep

Brown Rosin Masking Paper 36" x 1992"

Regardless of where you paint your car, the floor is going to get a lot of paint and overspray on it. This paper with painters tape works really well to protect the floor.



[Buy on Amazon](#)

ScotchBlue Original Multi-Surface Painters Tape

This tape is excellent to use for a number of applications while prepping your space and car for paint.



[Buy on Amazon](#)

Paint Prep

Flat Razor Blades

These come in super handy while doing body work and taping the car for paint prep.



[Buy on Amazon](#)

Krefinish Painters Tape

This tape is great for taping rubber gaskets, moldings, etc.



[Buy on Amazon](#)

Paint

For small areas, you can get OEM paint colors in spray cans from companies like Eastwood for example. Or you can test out a paint color like we did with this WRX. If not, the primer will hold up for awhile before you repaint the car or the panel where you did the repair on. You can also use any of the Rust-Oleum spray paint cans that are made specifically for automotive use like the one listed below.

Rust-Oleum 5-in1 Spray Paint

These cans are probably the best that I have used so far. They have a nozzle with multiple settings which is super useful. They do spit occasionally - which is not ideal - but for the price, you will get some really good coverage and it protects from rust.



[Buy on Amazon](#)

Video Tutorials

Watch the full 2 part video to see how we did a quick repair on this 2003 WRX

Watch Part 1



Watch Part 2

