5 Tips For Aluminum CD Stud Welding

Tip #1 Clean the Material

Start by wiping the surface with acetone or any solvent based cleaner to remove any residue or oxidation that could interfere with your weld. Avoid using abrasive materials that can leave a fine dust on the surface.

Tip #2 Use Two Ground Cables

Two ground cables help reduce electrical resistance, leading to more consistent welds. Placing the grounds on either side of the area you are welding on will help prevent arc blow.

Tip #3 Set the Correct Voltage

Make sure your stud welder's voltage is properly set based on the stud diameter. Always consult your machine's manual for the recommended settings. If you're using our StudPro line, the welder will have preset settings, simply press the diameter stud you will be welding, and the machine will set your voltage automatically.

Tip #4 Check Stud Stick-Out

Position the stud stick out correctly, typically 1/8" to 1/4" past the foot plate is recommended to ensure solid contact.

Tip #5 Adjust Spring Pressure

Ensure your weld gun has the correct spring pressure, for Aluminum CD studs #10 and above, you want the maximum amount of spring pressure. You can adjust the spring pressure to the max setting by rotating the knob at the back of the stud gun. Some stud guns may need to have the spring replaced.

Bonus Tip #6 Locating / Center Punching

We do not recommend center punching for locating your studs. The CD stud projection is very specific size and center punching changes the weld settings causing inconsistent results. We suggest using a template tube adapter. We have various sizes available to fit your stud gun.

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