

Recommended Practices for Automotive Weld Quality— Resistance Spot Welding



American Welding Society



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destructive test, nondestructive test

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Recommended Practices for Automotive Weld Quality— Resistance Spot Welding

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Prepared by
AWS D8 Committee on Automotive Welding

Under the Direction of
AWS Technical Activities Committee

Approved by
AWS Board of Directors

Abstract

This document presents recommended practices and criteria for evaluating resistance spot welds typical of automotive sheet steel applications. The document contains weld characteristics, metrics and testing methods useful in evaluating spot welding quality on coated and uncoated automotive sheet steels of all strength levels and compositions. The test methods described are designed to assess both static and dynamic properties of automotive sheet steel welds.

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Foreword

(This Foreword is not a part of AWS D8.7M:2005, *Recommended Practices for Automotive Weld Quality—Resistance Spot Welding*, but is included for informational purposes only.)

This document has been prepared as an informative reference to recognize a consensus of practices that may assist automotive industry suppliers in their understanding of resistance spot weld criterion and the methods for assessment of weld quality. As a recommended practice the criteria and techniques contained are not obligatory until cited as a normative reference in a mandatory document.

This recommended practice was prepared by the AWS D8D Subcommittee on Automotive Resistance Spot Welding of the AWS D8 Committee on Automotive Welding. This publication is issued under the auspices of the AWS D8 Committee on Automotive Welding.

The present publication of *Recommended Practices for Automotive Weld Quality—Resistance Spot Welding* is an update of the original document published in 1978. This edition presents an extension of previous information along with an introduction of new data and test methodologies. These enhancements are based on research activities sponsored by resistance welding equipment manufacturers, steel companies, automotive manufacturers, universities and the United States Department of Commerce.

Comments and suggestions for the improvement of this standard are welcome. They should be sent to the Secretary, AWS D8 Committee on Automotive Welding, American Welding Society, 550 N.W. LeJeune Road, Miami, FL 33126.

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