

# acura emission system problem

## Acura Emission System Problem: A Growing Concern for the Automotive Industry

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Published by Automotive Insights, a leading publication in the automotive industry known for its rigorous research and unbiased reporting.

Edited by Michael Davis, a seasoned editor with 20 years of experience in automotive journalism and a deep understanding of emission control technologies.

**Introduction:** The Acura emission system problem is a burgeoning issue impacting not only Acura owners but also raising broader concerns within the automotive industry. This article will delve into the nature of these problems, their implications, and potential solutions, aiming to provide a comprehensive understanding of this significant challenge. The keyword "Acura emission system problem" will be consistently used to ensure optimal search engine optimization (SEO).

**Understanding the Acura Emission System Problem:** Acura, like other manufacturers, utilizes sophisticated emission control systems to meet stringent environmental regulations. These systems, often complex and involving multiple components (catalytic converters, oxygen sensors, EGR valves, etc.), are designed to reduce harmful pollutants like nitrogen oxides (NOx), hydrocarbons (HC), and carbon monoxide (CO) in exhaust gases. However, various issues can arise, leading to an Acura emission system problem. These problems can range from relatively minor sensor malfunctions that trigger a check engine light, to major catalytic converter failures requiring expensive repairs.

**Common Causes of Acura Emission System Problems:** Several factors contribute to Acura emission system problems. These include:

**Malfunctioning Oxygen Sensors:** These sensors are crucial for controlling the air-fuel mixture. A faulty sensor can lead to inaccurate readings, resulting in excessive emissions and potentially damaging the catalytic converter. An Acura emission system problem stemming from oxygen sensor failure is relatively common.

**Catalytic Converter Failure:** The catalytic converter is a critical component responsible for converting harmful pollutants into less harmful substances. Factors like extended use, poor fuel quality, and engine problems can all contribute to its premature failure, causing a significant Acura emission system problem.

**EGR Valve Issues:** The Exhaust Gas Recirculation (EGR) valve regulates the amount of exhaust gas recirculated into the engine, reducing NOx emissions. A malfunctioning EGR valve can lead to increased NOx output and an Acura emission system problem.

**Leaking Intake Manifold:** A cracked or leaking intake manifold can cause inaccurate air-fuel ratios, directly impacting emissions and potentially triggering an Acura emission system problem.

**Software Glitches:** Modern vehicles rely heavily on sophisticated engine control units (ECUs). Software glitches within the ECU can lead to misinterpretations of sensor data, resulting in altered fuel delivery and increased emissions, thus contributing to an Acura emission system problem.

**Implications for the Automotive Industry:** The Acura emission system problem is not an isolated incident. It highlights broader challenges facing the industry in developing and maintaining reliable, long-lasting emission control systems. The increased complexity of these systems, combined with the demand for higher fuel efficiency and reduced emissions, presents significant engineering hurdles. The long-term implications include:

**Increased Repair Costs:** Repairing or replacing faulty emission components can be expensive for consumers, impacting customer satisfaction and loyalty.

**Warranty Claims:** Frequent emission system failures lead to increased warranty claims for manufacturers, affecting profitability.

**Environmental Concerns:** Vehicles with malfunctioning emission systems contribute to increased air pollution, negatively impacting public health and the environment.

**Regulatory Scrutiny:** Manufacturers face increased regulatory scrutiny and potential penalties for failing to meet emission standards. This adds pressure to improve the reliability and longevity of emission control systems.

**Addressing the Acura Emission System Problem:** Tackling this issue requires a multifaceted approach. Manufacturers need to focus on:

**Improved Component Durability:** Designing more robust and long-lasting emission system components.

**Advanced Diagnostics:** Developing more sophisticated diagnostic tools to quickly identify and address potential problems.

**Software Enhancements:** Implementing improved software algorithms to optimize emission control strategies and minimize malfunctions.

**Preventive Maintenance:** Educating consumers on the importance of regular maintenance to prevent potential issues.

**Conclusion:** The Acura emission system problem underscores the complexities and

challenges inherent in meeting increasingly stringent emission regulations. Addressing this problem requires a collaborative effort between manufacturers, regulatory bodies, and consumers to ensure both environmental protection and customer satisfaction. The automotive industry must prioritize developing more reliable and durable emission control systems to prevent future occurrences of similar issues.

#### FAQs:

1. What is the average cost to repair an Acura emission system problem? Costs vary significantly depending on the specific issue, ranging from a few hundred dollars for sensor replacement to several thousand dollars for catalytic converter replacement.
1. How can I tell if my Acura has an emission system problem? Symptoms include a check engine light, reduced fuel efficiency, unusual engine noises, and a strong smell of exhaust fumes.
1. Will a malfunctioning emission system fail my state inspection? Yes, most state inspections include an emissions test, and a failing emission system will result in a failed inspection.
1. Can I drive my Acura with a malfunctioning emission system? While you can drive it, it's illegal and harmful to the environment. Repairing the problem is crucial.
1. What are the long-term effects of ignoring an Acura emission system problem? Ignoring the problem can lead to further damage to the engine, increased emissions, and ultimately, more expensive repairs.
1. How often should I have my Acura's emission system inspected? Consult your owner's manual for recommended maintenance schedules. Regular inspections are crucial for early detection of potential problems.
1. Is there a recall for Acura vehicles related to emission system problems? Check the NHTSA website for any recalls related to your specific Acura model and year.

1. Can I repair the Acura emission system myself? Unless you are an experienced mechanic with specialized tools, it's best to leave repairs to a qualified professional.
1. What type of warranty covers emission system problems on Acuras? Warranty coverage varies depending on the age and mileage of your vehicle, and the specific component that fails. Consult your warranty documentation for specifics.

#### Related Articles:

1. Acura TLX Emission System Issues: Common Problems and Solutions: This article focuses on specific emission system problems experienced by Acura TLX owners, providing detailed troubleshooting guides and repair information.
1. Diagnosing a Check Engine Light Related to Acura Emission System: A step-by-step guide on how to diagnose check engine light codes related to emission system malfunctions in Acura vehicles.
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1. Comparing Acura Emission System Reliability to Competitors: A comparative analysis of the reliability of Acura's emission control systems relative to other automotive brands.

**acura emission system problem: 2007 Import Diagnostic Trouble Code Manual (1994-2007)** Autodata, 2006-11 Model year coverage for the Import DTC Manual is 1994-2007. The manual features domestic diagnostic trouble codes and list the probable cause of each code. The manual provides MIL Codes, OBD Codes and Fault locations. Code retrieval techniques are described using concise text and clear illustrations in separate sections for each model. Instructions for retrieval and erasure of trouble codes are provided as well as data link connector locations. All data is based on OEM information. The information is available on CD. CDs contain both English and Spanish languages.

**acura emission system problem: 1989 Imported Cars, Light Trucks & Vans Service & Repair** Mitchell International, 1990

**acura emission system problem: Transportation Energy Data Book** , 2005

**acura emission system problem: Collaborative Lubricating Oil Study on Emissions (CLOSE)** , 2011

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**acura emission system problem:** Chilton's Import Car Repair Manual 1983-90 Chilton Automotive Books, 1989-10 Maintenance, specifications, step by step parts replacements.

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**acura emission system problem: Engineering Fundamentals: An Introduction to Engineering, SI Edition** Saeed Moaveni, 2011-01-01 Specifically designed as an introduction to the exciting world of engineering, ENGINEERING FUNDAMENTALS: AN INTRODUCTION TO ENGINEERING encourages students to become engineers and prepares them with a solid foundation in the fundamental principles and physical laws. The book begins with a discovery of what engineers do as well as an inside look into the various areas of specialization. An explanation

on good study habits and what it takes to succeed is included as well as an introduction to design and problem solving, communication, and ethics. Once this foundation is established, the book moves on to the basic physical concepts and laws that students will encounter regularly. The framework of this text teaches students that engineers apply physical and chemical laws and principles as well as mathematics to design, test, and supervise the production of millions of parts, products, and services that people use every day. By gaining problem solving skills and an understanding of fundamental principles, students are on their way to becoming analytical, detail-oriented, and creative engineers. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

**acura emission system problem: Theory of Ground Vehicles** J. Y. Wong, 2001-03-20 An updated edition of the classic reference on the dynamics of road and off-road vehicles As we enter a new millennium, the vehicle industry faces greater challenges than ever before as it strives to meet the increasing demand for safer, environmentally friendlier, more energy efficient, and lower emissions products. Theory of Ground Vehicles, Third Edition gives aspiring and practicing engineers a fundamental understanding of the critical factors affecting the performance, handling, and ride essential to the development and design of ground vehicles that meet these requirements. As in previous editions, this book focuses on applying engineering principles to the analysis of vehicle behavior. A large number of practical examples and problems are included throughout to help readers bridge the gap between theory and practice. Covering a wide range of topics concerning the dynamics of road and off-road vehicles, this Third Edition is filled with up-to-date information, including: \* The Magic Formula for characterizing pneumatic tire behavior from test data for vehicle handling simulations \* Computer-aided methods for performance and design evaluation of off-road vehicles, based on the author's own research \* Updated data on road vehicle transmissions and operating fuel economy \* Fundamentals of road vehicle stability control \* Optimization of the performance of four-wheel-drive off-road vehicles and experimental substantiation, based on the author's own investigations \* A new theory on skid-steering of tracked vehicles, developed by the author.

**acura emission system problem: Used Car Buying Guide, 1993** Consumer Reports Books, 1993

**acura emission system problem: Consumers Index to Product Evaluations and Information Sources** , 1989

**acura emission system problem: Chilton's Import Auto Service Manual** , 2000 Contains general information for technicians on the specifications, MIL resetting and DTC retrieval, accessory drive belts, timing belts, brakes, oxygen sensors, electric cooling fans, and heater cores of twenty-one types of import cars.

**acura emission system problem: To Stem this Tide** Charles Spurgeon Johnson, 1943

**acura emission system problem: Consumer Reports Used Car Buying Guide [2005]** Consumer Reports (Firm), 2005 Features recommendations and ratings on hundreds of small, medium, and large-sized cars based on quality, economy, performance, and comfort standards, with judgments on crash protection, and assessments of available options.

**acura emission system problem: Motoring the Future** Engelbert Wimmer, 2011-11-30 The crisis in the auto industry has resulted in a race between Volkswagen, as challenger, and Toyota, as tattered global market leader. Whether it is the German or the Japanese firm that takes pole position, the winner will change the balance of power in the automotive industry and lead the way to the automobiles of the future.

**acura emission system problem: Data Analysis and Decision Support** Daniel Baier, Reinhold Decker, Lars Schmidt-Thieme, 2006-05-06 It is a great privilege and pleasure to write a foreword for a book honoring Wolfgang Gaul on the occasion of his sixtieth birthday. Wolfgang Gaul is currently Professor of Business Administration and Management Science and the Head of the Institute of Decision Theory and Management Science, Faculty of Economics, University of Karlsruhe (TH), Germany. He is, by any measure, one of the most distinguished and eminent

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**acura emission system problem: Cost, Effectiveness, and Deployment of Fuel Economy Technologies for Light-Duty Vehicles** National Research Council, Division on Engineering and Physical Sciences, Board on Energy and Environmental Systems, Committee on the Assessment of Technologies for Improving Fuel Economy of Light-Duty Vehicles, Phase 2, 2015-09-28 The light-duty vehicle fleet is expected to undergo substantial technological changes over the next several decades. New powertrain designs, alternative fuels, advanced materials and significant changes to the vehicle body are being driven by increasingly stringent fuel economy and greenhouse gas emission standards. By the end of the next decade, cars and light-duty trucks will be more fuel efficient, weigh less, emit less air pollutants, have more safety features, and will be more expensive to purchase relative to current vehicles. Though the gasoline-powered spark ignition engine will continue to be the dominant powertrain configuration even through 2030, such vehicles will be equipped with advanced technologies, materials, electronics and controls, and aerodynamics. And by 2030, the deployment of alternative methods to propel and fuel vehicles and alternative modes of transportation, including autonomous vehicles, will be well underway. What are these new technologies - how will they work, and will some technologies be more effective than others? Written to inform The United States Department of Transportation's National Highway Traffic Safety Administration (NHTSA) and Environmental Protection Agency (EPA) Corporate Average Fuel Economy (CAFE) and greenhouse gas (GHG) emission standards, this new report from the National Research Council is a technical evaluation of costs, benefits, and implementation issues of fuel reduction technologies for next-generation light-duty vehicles. Cost, Effectiveness, and Deployment of Fuel Economy Technologies for Light-Duty Vehicles estimates the cost, potential efficiency improvements, and barriers to commercial deployment of technologies that might be employed from 2020 to 2030. This report describes these promising technologies and makes recommendations for their inclusion on the list of technologies applicable for the 2017-2025 CAFE standards.

**acura emission system problem: *Smart Transport for Cities and Nations*** Christian Claudel, Paul Avery, Wendy Wagner, Lisa Loftus-Otway, Daniel Fagnant, Prateek Bansal, Michael Levin, Rahul Patel, Tianxin Li, Yong Zhao, Michele Simoni, Lewis Clements, Guni Sharon, Duncan Stewart, Peter Stone, Aqshems Nichols, Tejas Choudhary, Josiah Hanna, Purser Sturgeon, Michael Albert, Jia Li, Krishna Murthy Gurumurthy, Kenneth A. Perrine, Marc Segal, Qinglu Ma, Hagen Fritz, 2018-06-30

**acura emission system problem: *Automotive Electrical and Electronic Systems***, 2000

**acura emission system problem: *Beautiful Visualization*** Julie Steele, Noah Iliinsky, 2010-04-23 Visualization is the graphic presentation of data -- portrayals meant to reveal complex information at a glance. Think of the familiar map of the New York City subway system, or a diagram of the human brain. Successful visualizations are beautiful not only for their aesthetic design, but also for elegant layers of detail that efficiently generate insight and new understanding. This book examines the methods of two dozen visualization experts who approach their projects from a variety of perspectives -- as artists, designers, commentators, scientists, analysts, statisticians, and more. Together they demonstrate how visualization can help us make sense of the world. Explore the importance of storytelling with a simple visualization exercise Learn how color conveys information

that our brains recognize before we're fully aware of it Discover how the books we buy and the people we associate with reveal clues to our deeper selves Recognize a method to the madness of air travel with a visualization of civilian air traffic Find out how researchers investigate unknown phenomena, from initial sketches to published papers Contributors include: Nick Bilton, Michael E. Driscoll, Jonathan Feinberg, Danyel Fisher, Jessica Hagy, Gregor Hochmuth, Todd Holloway, Noah Iliinsky, Eddie Jabbour, Valdean Klump, Aaron Koblin, Robert Kosara, Valdis Krebs, JoAnn Kuchera-Morin et al., Andrew Odewahn, Adam Perer, Anders Persson, Maximilian Schich, Matthias Shapiro, Julie Steele, Moritz Stefaner, Jer Thorp, Fernanda Viegas, Martin Wattenberg, and Michael Young.

**acura emission system problem: Automotive News , 2004**

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**acura emission system problem: *Popular Mechanics* , 1996-05** Popular Mechanics inspires, instructs and influences readers to help them master the modern world. Whether it's practical DIY home-improvement tips, gadgets and digital technology, information on the newest cars or the latest breakthroughs in science -- PM is the ultimate guide to our high-tech lifestyle.

**acura emission system problem: *SAE On-board Diagnostics for Light and Medium Duty Vehicles Standards Manual* , 2010**

**acura emission system problem: *The Wall Street Journal* , 1988**

**acura emission system problem: *Car Guys vs. Bean Counters*** Bob Lutz, 2011-06-09 A legend in the car industry reveals the philosophy that's starting to turn General Motors around. In 2001, General Motors hired Bob Lutz out of retirement with a mandate to save the company by making great cars again. He launched a war against penny pinching, office politics, turf wars, and risk avoidance. After declaring bankruptcy during the recession of 2008, GM is back on track thanks to its embrace of Lutz's philosophy. When Lutz got into the auto business in the early sixties, CEOs knew that if you captured the public's imagination with great cars, the money would follow. The car guys held sway, and GM dominated with bold, creative leadership and iconic brands like Cadillac, Buick, Pontiac, Oldsmobile, GMC, and Chevrolet. But then GM's leadership began to put their faith in analysis, determined to eliminate the waste and personality worship of the bygone creative leaders. Management got too smart for its own good. With the bean counters firmly in charge, carmakers (and much of American industry) lost their single-minded focus on product excellence.

Decline followed. Lutz's commonsense lessons (with a generous helping of fascinating anecdotes) will inspire readers at any company facing the bean counter analysis-paralysis menace.

**acura emission system problem:** *Engine Code Manual* Chilton Automotive Books, The Nichols/Chilton, Chilton, 1995 The complete manual for understanding engine codes, troubleshooting, basic maintenance and more.

**acura emission system problem: Automotive Mechatronics: Operational and Practical Issues** B. T. Fijalkowski, 2011-03-14 This book presents operational and practical issues of automotive mechatronics with special emphasis on the heterogeneous automotive vehicle systems approach, and is intended as a graduate text as well as a reference for scientists and engineers involved in the design of automotive mechatronic control systems. As the complexity of automotive vehicles increases, so does the dearth of high competence, multi-disciplined automotive scientists and engineers. This book provides a discussion into the type of mechatronic control systems found in modern vehicles and the skills required by automotive scientists and engineers working in this environment. Divided into two volumes and five parts, Automotive Mechatronics aims at improving automotive mechatronics education and emphasises the training of students' experimental hands-on abilities, stimulating and promoting experience among high education institutes and produce more automotive mechatronics and automation engineers. The main subject that are treated are:  
VOLUME I: RBW or XBW unibody or chassis-motion mechatronic control hypersystems; DBW AWD propulsion mechatronic control systems; BBW AWB dispulsion mechatronic control systems;  
VOLUME II: SBW AWS conversion mechatronic control systems; ABW AWA suspension mechatronic control systems. This volume was developed for undergraduate and postgraduate students as well as for professionals involved in all disciplines related to the design or research and development of automotive vehicle dynamics, powertrains, brakes, steering, and shock absorbers (dampers). Basic knowledge of college mathematics, college physics, and knowledge of the functionality of automotive vehicle basic propulsion, dispulsion, conversion and suspension systems is required.

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**acura emission system problem:** *Update '98* , 1998

**acura emission system problem:** *Machine that Changed the World* James P. Womack, Daniel T. Jones, Daniel Roos, Massachusetts Institute of Technology, 1990 Draws conclusions for the future of the industry in the USA.

**acura emission system problem: U. S. Motor Vehicle Industry** Bill Canis, 2011 This is a print on demand edition of a hard to find publication. An in-depth analysis of the 2009 crisis in the U.S. auto ind'ry. and its prospects for regaining domestic and global competitiveness. Analyzes bus. and policy issues arising from the restructurings within the industry. The year 2009 was marked by recession and a crisis in global credit markets; the bankruptcy of GM and Chrysler; the incorp. of successor co.; hundreds of parts supplier bankruptcies; plant closings and worker buyouts; the cash-for-clunkers program; and increasing production and sales at year's end. Also examines the successes of Ford and the increasing presence of foreign-owned OEM, foreign-owned parts mfrs., competition from imported vehicles, and a buildup of global over-capacity that threatens the recovery of U.S. domestic producers.

**acura emission system problem: The Singularity Is Near** Ray Kurzweil, 2005-09-22 NEW YORK TIMES BESTSELLER • Celebrated futurist Ray Kurzweil, hailed by Bill Gates as "the best person I know at predicting the future of artificial intelligence," presents an "elaborate, smart, and persuasive" (The Boston Globe) view of the future course of human development. "Artfully envisions a breathtakingly better world."—Los Angeles Times "Startling in scope and bravado."—Janet Maslin, The New York Times "An important book."—The Philadelphia Inquirer At the onset of the twenty-first century, humanity stands on the verge of the most transforming and thrilling period in

its history. It will be an era in which the very nature of what it means to be human will be both enriched and challenged as our species breaks the shackles of its genetic legacy and achieves inconceivable heights of intelligence, material progress, and longevity. While the social and philosophical ramifications of these changes will be profound, and the threats they pose considerable, The Singularity Is Near presents a radical and optimistic view of the coming age that is both a dramatic culmination of centuries of technological ingenuity and a genuinely inspiring vision of our ultimate destiny.

**acura emission system problem:** Automotive Electrics and Electronics Horst Bauer, 1999 3rd Edition. As a result of rapid technological developments, the use of electronic equipment in vehicles has increased immensely. This book covers a wide variety of electric/electronic systems and components, ranging from alternators and starting systems to safety systems, theft deterrence and navigation systems. Automotive Electrics and Electronics provides comprehensive, easy-to-understand descriptions as well as numerous charts, drawings and illustrations. This third edition features a new section on lighting technology and updated information on starter batteries, alternators, starting systems, spark-ignition engine management, diesel-engine management and electromagnetic compatibility. Contents include: Vehicle Electrical System and Circuit Diagrams Electromagnetic Compatibility (EMC) Starter Batteries Traction Batteries Alternators Starting Systems Lighting Technology Washing and cleaning Systems Theft-deterrence systems Comfort and Convenience Systems Information Systems Occupant-Safety Systems Driving-Safety Systems Spark-Ignition-Engine Management Diesel-Engine Management. Comprehensive reference that makes complex electronic issues easier to understand.

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